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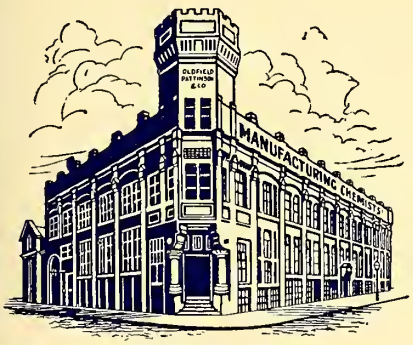

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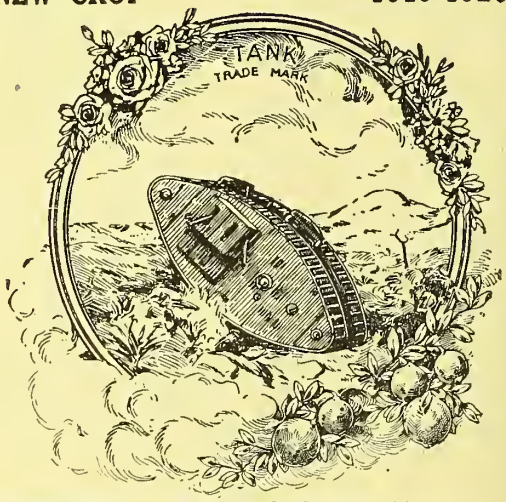

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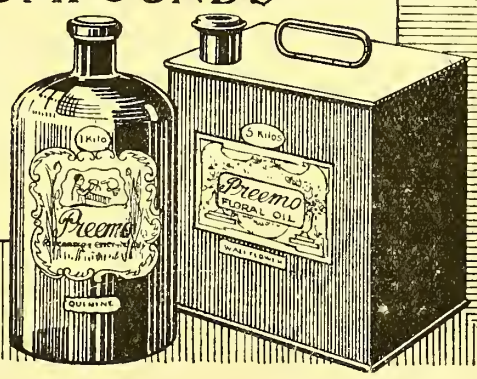

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QUININE and QUININE SALTS.

Unexcelled in Uniformity of Quality,
Brilliant Crystallisation and Purity of Colour.

CINCHONINE, CINCHONIDINE, QUINIDINE,
and their SALTS.

MANUFACTURED BY

NEDERLANDSCHE KININEFABRIEK, MAARSSEN, HOLLAND

AGENTS:— R. W. Greeff and Company,
Thames House, Queen Street Place,
LONDON, E.C.4.

DODGE & OLCOTT CO., 20 MARK LANE, LONDON, E.C.

THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT,
SASSAFRAS, ETC.
BALSAMS of Copaiba, Peru, Tolu.
TONKA BEANS, Angosturas.

'Phone: CITY 2468.

Telegrams: "EGDARF, FEN, LONDON."

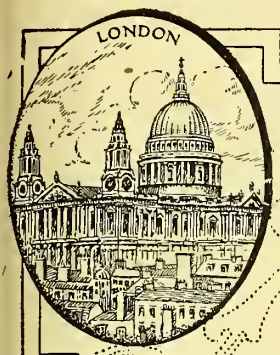
"LANZONE" BRAND LANOLIN B.P.

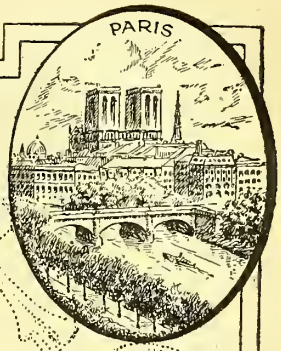
IMMEDIATE DELIVERY
FROM STOCK.

THE PRODUCE BROKERS CO., Ltd.

24-28 ST. MARY AXE, E.C.3.

TELEPHONE: AVENUE 3410 (9 Lines). TELEGRAMS: "SYNTAX LONDON."



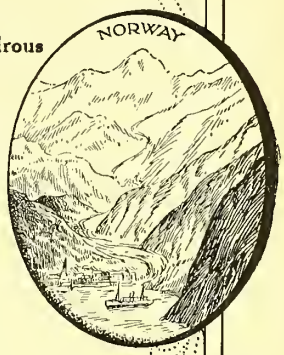


PHARMACEUTICAL
AND
PHOTOGRAPHIC PRODUCTS.

R. W. GREEFF & Co. offer at lowest prices the following products :—

(WHOLESALE QUANTITIES ONLY)

Acetanilid	Guaiacol Carbonate	Potash Sulpho-Guaiacolate
Acetyl Salicylic Acid	Hexamine	Quinidine and Salts
Amidol	Homatropine	Quinine and Salts
Amidopyrin	Hydroquinone	Quinoidine
Barbitone	Ichthyol Substitute	Resorcin
Benzoic Acid	Kelene	Saccharin
Benzamine Hydrochlor	Lemon Oil	Salicylic Acid
Benzamine Lactate	Lithia Carbonate	Salicylate of Soda
Benzo Naphthol	Lecithin	Salol
Beta Naphthol	Menthol	Soda Benzoate
Bromides	Mercurials	Soda Hyposulphite
Calcium Lactate	Methylene Blue Medicinal	Soda Sulphite Anhydrous
Chloral Hydrate	Methyl Salicylate	Sugar of Milk
Cinchonine and Salts	Metol	Tannic Acid
Cinchonidine and Salts	Paraldehyde	Tannin Albuminate
Citric Acid	Peppermint Oil	Tartaric Acid
Cocain	Pepsine	Terpineol
Coumarin	Peptone	Terpine Hydrate
Creosote Carbonate	Phenacetin	Theobromine
Eucalyptus Oil	Phenazone	Thymol Crystals
Gallic Acid	Phenolphthalein	Vanillin
Glycerophosphates	Pyrogallic Acid	



R. W. Greeff & Co.

THAMES HOUSE, QUEEN STREET PLACE,
LONDON, E.C.4.

MANCHESTER BRANCH
Lloyd's Bank Buildings.
King Street.

NEW YORK AGENTS
R. W Greeff & Co., Inc.,
78, Front Street.

LAMP-BLOWN ARTICLES

SUCH AS

Test Tubes, Ampoules and Vials.

We have the greatest pleasure in intimating that not only are we making the above articles, but have every facility for reasonably quick delivery.

We also feel a pardonable pride in being able to train wounded soldiers for some of this work, and who are imbued with the ideas and high standard these productions demand.

We also have large stocks of Medicals, Kalis, Limes, Vials and Perfumery Bottles. We can always fix you up with something from stock.

JULES LANG & SON, Charlton Works, Charlton Place, ISLINGTON, LONDON, N.1.

Telegraphic Address: "Assorted, Phone, London." Telephone: North 2770 (3 lines).

Lescol Perfumery

NOTICE.

New and attractive lines will be brought out shortly, and an illustrated catalogue sent out. In the meantime we will send on application a supplementary list of lines in stock, popular in price and advantageous in sale.

We can also offer to advantage Perfumery in Bulk in two qualities—Essential Oils of guaranteed purity; Floral Ottos for Cachous, &c.; Fruit and Soluble Essences, Chemicals, &c.

THE LONDON ESSENCE CO., Ltd.

(Proprietors of THE LESCOL PERFUMERY CO.)

Lomond Grove, Camberwell, LONDON, S.E.5.

Telephone: 810 HOP. Telegrams: "VANILLIN, CAMBER, LONDON."

Maw's Page

NUMBER 439.
MARCH 13, 1920

S. MAW, SON & SONS, LTD. • 7/12, ALDERSGATE ST. LONDON, E.C.1.

Childhood Beauty

There are sins of omission and commission. And although the former are but negative misdeeds, I am inclined to think that they are often most evil in their effects.

Witness the sin of omission on the part of parents who neglect to take care of their children's birthright of loveliness.

A child is the most beautiful thing that is given to this earth. No summer sky can match the azure of its eyes, no dew-wet rose the sweetness of its lips, no tinted shell the dainty modelling of its ears. Not one of its features should be allowed to fall prey to the onslaught of creeping circumstance.

Too often the ears of a bairn will be ruined for life during the early years of childhood. The ear will be bent over on the pillow in sleep, impatient young hands will drag bonnet or cap down too far in the day-time. And the result is soon seen in outstanding ears that mar an otherwise delightful face. Sometimes a child may be born with ears slightly outstanding. In either case there is a remedy, and the child should not pay the penalty of neglect.

The House of Maw submits Nurse Golton's Pattern Ear Cap, made in various sizes—its considered choice as a remedy for prominent ears. Experience has proved this simple appliance to be most effective. Its results are such as to command its use to every parent who feels that proper sense of pride in the child that will brook no defect which can be repaired.

Mothers entering your store are often accompanied by children, and a keen eye, tactful observation and suggestion can be the means of an appreciable number of sales. And you will feel, too, that you are doing something to preserve that child beauty which appeals so intensely to us all.

Discus

Maw's Guaranteed Enemas
(BRITISH MADE)

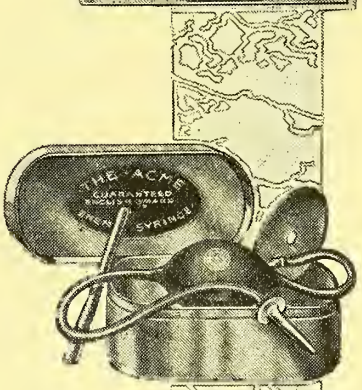
THE Enema of outstanding merit—that is the "Durbar". You can recommend it to your customers with every confidence because it is in every way superior to foreign-made articles at a similar price. Every "Durbar" is of medium weight, black finished, fitted with bone rectal pipe, elastic gum vaginal pipe and shield complete in strong card box as illustration.

Price **30/-** per dozen.

THE "ACME."

A full-sized superior black finish enema with extra stout tube and bulb. Fitted complete with bone rectal pipe, elastic gum vaginal pipe and shield. Packed in oval leatherette covered box with lift-off dome top.

Price **36/6** per dozen.



THE ARABESQUE.

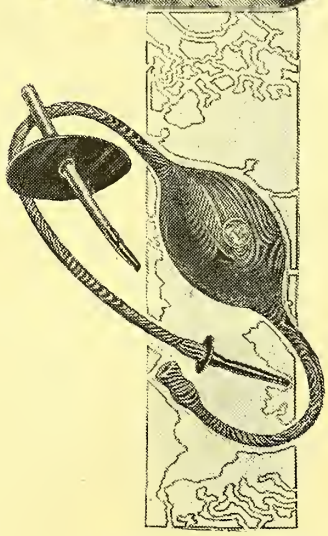
A first-class enema of reliable quality and finish moulded in one piece. Made in two sizes as follows:

No. 11 Super. Full size and weight fitted with bone rectal pipe, elastic gum vaginal pipe and shield. Packed complete in oval leatherette covered box with hinged lid.

Price **60/-** per dozen.

No. 11 Ordinary. Slightly smaller size and weight but of same quality throughout. Complete as above and packed in strong oval card box with lift-off lid.

Price **50/-** per dozen.



Special Quotations for 1-Gross Lots.

TELEPHONE: CITY 7 (PRIVATE BRANCH EXCHANGE). TELEGRAMS: "ELEVEN, CENT, LONDON."

Be Prepared!

AMO-DEL

A RARE INDIAN PERFUME.

SOME years ago Mr. John Birkett, Pharmaceutical Chemist of Morecambe, proprietor of "Sea Breeze" Perfume, created the first bottle of "Amo-Del."

It was the masterpiece of one whose skill in the blending of distinctive and fascinating perfumes is almost uncanny.

Its triumphal debut to the public began at Morecambe, and thence to Blackpool; the Sales were phenomenal, including a large and extensive postal trade.

Its fame, in spite of the fact that "Amo-Del" was not advertised, spread further and further afield until it was necessary to refuse orders from the trade owing to the difficulty, through wartime conditions, of obtaining the necessary supplies.

To-day the supply will meet all demands, and a greater public will shortly have the opportunity of experiencing its peculiar charm and refreshing fragrance.

There is a distinctiveness about "Amo-Del" which savours of the mystery and alluring sweetness of the East; it is altogether different from other perfumes, it is exclusive and select, appealing to the most refined taste.

Every Chemist may rely upon strong publicity, both local and national.

"Amo-Del" has only to be introduced to become a good seller and a lasting favourite.

Actual Size 6/- Bottle.

PRICES PER BOTTLE:
2/6, 4/6, 5/- (with box), **6/-** and **7/9.**
(Dainty Samples 9/- per dozen.)

TERMS: 25%, with additional 5% for Window Display. 3¾% Cash Discount. Attractive Showcards.

SEND YOUR ORDER TO-DAY TO:

BEAZ

(Blackpool) - - LTD.

Sole Concessionnaires.

Bees Buildings, Buchanan Street, BLACKPOOL.

Telegrams: "Manicure Blackpool." Telephone: No. 923.

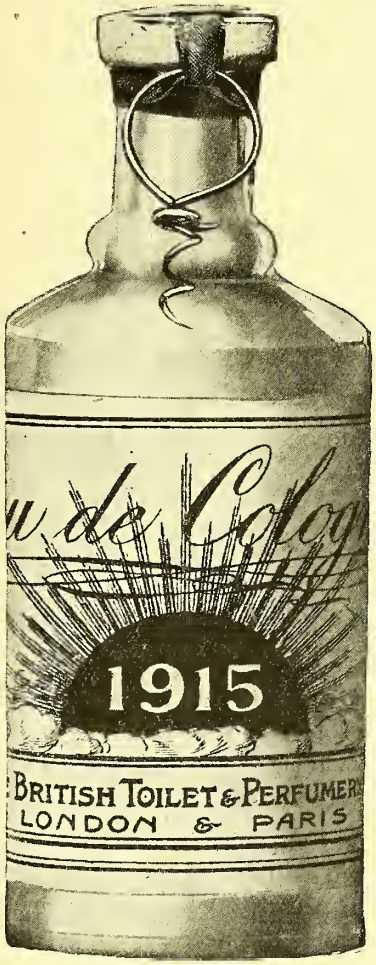
London Representative:—
Mr. P. W. TAYLOR,
128 HIGH HOLBORN, W.C 2

OVERSEAS AGENCIES INVITED

"1915" EAU DE COLOGNE

A BIG SELLER *with* A BIG PROFIT

The lasting properties and exceptionally high Spirit Content of "1915" Eau de Cologne guarantee its efficiency in the sick-room.



"1915" Eau de Cologne ensures repeat orders on its merits.

Attractive show-cards gladly supplied.

OUR SPECIAL OFFER.

For fourteen days' Prominent Window Display.

Goods (any assortment) to net value £10, 20/- Special Cash Discount.

Goods (any assortment) to net value £20, 42/- Special Cash Discount.

PRICES:

	Per doz.	Retail each.
1-oz.	16/9	2/-
2-oz.	30/-	3/6
4-oz.	54/6	6/6
8-oz.	106/6	12/6
Rptd. ½-pt.	85/-	10/-
,, 1-pt.	153/-	18/6
,, 1-qt.	293/-	35/-
Sml. W. Flks.	16/6	2/-
Lge. W. Flks.	27/6	3/3

"1915" Eau de Cologne is the best All-British Product of proved Merit.

Send a postcard to-day for particulars of full range of "1915" Series of Toilet Specialities together with samples of "1915" Eau de Cologne and "1915" Lavender Water

THE BRITISH TOILET & PERFUMERY CO.

64 Great Titchfield Street - - - London, W.1

H. LESTER, M.P.S., Proprietor.

Wholesale London Agents:
BUTLER & CRISPE, Clerkenwell Road, E.C.1.
WM. EDWARDS & SONS, 157 Queen Victoria Street, E.C.4.
R. HOVENDEN & SONS, LTD. Berners Street, W.1., & City Road, E.C.1.

Wholesale Provincial Agents:
HIRST, BROOK & HIRST, Leeds.
LORIMER, MOYES & CO., Glasgow.
PARTON, SONS & CO., LTD., Birmingham.

Join the Ucal Queue!

There is now a queue of Pharmacists awaiting admission into Ucal. The Ucal Idea is Manufacturing plus Salesmanship.

On one hand, the Pharmacist is confronted with the Proprietary Manufacturer who only asks him to stock, and hand out on demand, his line of goods. The retailer's profit (?) is pared down to a mere "handling charge" so as to leave the manufacturer ample margin for expensive advertising.

On the other hand, the Pharmacist may sell the products of "Packers to the Trade" if he has the time and cares to take the trouble. But it isn't easy to establish an unknown brand in these days—without the aid of advertising.

The Ucal Plan offers a sane middle course between these two extremes. It provides proved-efficient goods, effectively packed at economical prices. What is more, the Ucal Plan also provides *free* of cost, the necessary material for selling the goods. Advertising in a dozen forms, large and small, is given free to all Ucal members. That is why they sell more goods.

Because this is real advertising—salesmanship in print—it really does sell more goods. And that is why there is to-day a queue of Pharmacists awaiting admission to Ucal.

The sooner you get into line, the sooner you'll get in.

Information free by return from

UCAL,

CHELTENHAM.

Ucal

The Sign of Reliability

AYRTON'S WEEKLY PAGE 15

Immediate delivery !

Glass Bottles

We have just received several large consignments of American bottles and have others due to arrive shortly.

Notwithstanding the high rate of exchange, we have priced these bottles at reasonable figures.

There is no possible chance of the shortage being overcome for some considerable time and we advise you to place your orders now, as prices will advance considerably.

With a few exceptions we have large quantities running into hundreds of grosses of each size and kind. The total shipment consists of about 3,600 gross, **they are in stock and can be delivered immediately.**

The line immediately over the price represents the contents of original cases. *To save labour, we prefer to sell as packed by the makers, and will give a rebate of 1/- per gross on orders for original packages.*

OWEN'S OVALS—A white flint, oval fronted dispensing bottle, plain with fluted neck.

	1	2	4	8-oz.
Contents	5	5	3	1½-gross
Per gross	23/6	27/9	40/-	60/-

BALL NECK PANELS—A large-looking white flint speciality bottle, panelled each side.

	3	4	6	8-oz.
Contents	2	2	1½	1-gross
Per gross	46/6	52/6	57/-	78/-

SIGNET OVALS—An oval fronted dispensing bottle with plain sloping neck.

	½	1	2	3	4	6	8-oz.
Contents	5	5	5	3	3	2	1½-gross
Per gross	20/9	23/-	26/9	33/6	40/-	47/-	52/6

ALPHA OVALS—A slightly oval fronted white flint dispensing bottle.

	½	1	2	4	8-oz.
Contents	6	5	5	3	1½-gross
Per gross	20/9	23/-	26/9	40/-	52/6

MANHATTAN ROUND SQUATS—Practically same bottle as our W.F. plug pomade.

	1	2-oz.
Contents	8⅓	4⅙-gross
Per gross	30/-	36/-

Box-top corks 10/- per gross extra.

SCREW-CAP POMADES—White flint, machine turned necks, well finished, 2-oz.

Contents	3-gross
Per gross	30/-

LONDON OVALS—An oval fronted plain dispensing bottle.

	6	8-oz.
Contents	2	2½-gross
Per gross	47/-	58/-

WHITE FLINT BLAKES—Suitable for use as a dispensing flat.

	4	8-oz.
Contents	4	2⅔-gross
Per gross	46/-	58/-

PALE GREEN BLAKES—Sliced corners, suitable for dispensing.

	3	4	6	8-oz.
Contents	3	4	3	2½-gross
Per gross	36/-	41/-	45/-	53/-

PHILADELPHIA OVALS—A white flint round shouldered oval dispensing bottle.

		8-oz.
Contents		2⅙-gross
Per gross		56/-

CANADIAN SQUARES—A white flint sloping shouldered speciality bottle.

	4	8-oz.
Contents	4⅙	2¼-gross
Per gross	46/3	58/-

N.B.—(1) Packages are charged 3/6 and are returnable. (2) *1/- per gross less for original cases.* (3) All bottles are plain, not graduated. (4) Samples on application.

AYRTON, SAUNDERS & CO. LTD.
LIVERPOOL

INCREASED PROFIT ON NEW PRICE

3/6

INSTEAD OF

2/9

AS from March 1st, 1920, the New Retail Price of 3/6, instead of the old Pre-war Price of 2/9, will come into operation

ALL BRITISH-OWNED ALL BRITISH-MADE

AT ALL CHEMISTS IN 3/6 BOTTLES: FACE VALUE

THE New Retail Price will mean increased Profit for the Chemist, A CLEAR PROFIT of 20% will be obtainable on the smallest quantities.

A FURTHER 5% PROFIT

may be obtained by ordering a 6-dozen Parcel from any of the Wholesale Houses.

NEW PRICE LABELS

For any old-price stock on hand, sent post-free on request direct to

S. KUTNOW & CO., LD.

41 Farringdon Road, London, E.C. 1,

Who tender hearty thanks to all Chemists for past and future co-operation.

A FAULTLESS SALT.

PHARMACISTS who desire a perfect saline, exquisitely packed, and displaying their own imprint, should order "Vine" Grape Saline 8-oz. Cheltenhams, as illustrated above.

THE SALINE.

A skilfully balanced powder, giving a brisk and sustained effervescence ; just sweet enough to be enjoyable, but not too sweet to destroy that pleasant tang which an honestly compounded saline alone can leave on the palate.

THE PACKAGE.

The Carton, printed on good quality enamelled board, displays a bunch of luscious grapes in nature colouring on a delicate ivory background. The label, also in full colours, harmonises with the carton.

Pharmacist's name and address is printed free on labels and cartons for orders of 3 dozen. Ask our Representative to show you samples and quote trade prices, or write direct.

THOMAS KERFOOT & Co Ltd.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1767.

COPYRIGHT

Read what "The Advertising World" says concerning our "Beautiful Women" Series of Press Advertisements :—

"The idea of a Toilet Preparation is closely allied with that of pre-eminent beauty and loveliness as represented by some of the most famous heroines of fiction. It is no less usefully allied to quality, refinement and good taste. . . . If for no other reason than the appearance of the advertisement, the advertiser's proposition would at sight be accepted as belonging to the first class. . . . The salesman is able to explain to the friendly instead of having to arouse the uninterested."

YOU get the advantage of this extensive Press Advertising when you handle the products of the Vinolia Company. The high quality of their Toilet Preparations, coupled with continuous advertising in the best papers in the country, has given them a foremost place in public favour and esteem.

We show specimens on this page of the "Beautiful Women" Series of Press Advertisements with which we are assisting the sales of our customers at the present time. It is good business to stock

ROYAL VINOLIA

VINOLIA COMPANY LIMITED, LONDON.

RV 418—29

The Result of experience— not an experiment.

IMPERIA

(Antiseptic)

HAIR FIXING CREAM

Made with and without Violet Oil. Daintily but not oppressively perfumed.

E 690. 4 oz. per doz. **8/6** Retail.
E 691. 8 oz. per doz. **12/6** Retail.

Discriminating buyers will always purchase the large size. Send a Sample Order for 4 doz. Small and 2 doz. Large and see how quickly they repeat.

E690.

This Showcard will sell many dozen for you.

THE

Empire Perfumery Co.

(CUXSON, GERRARD & CO., Ltd., Proprietors)

OLDBURY, near Birmingham

Foreign and Colonial orders invited.

Enolin

TOOTH PASTE

"STRONG" OR "MILD"

THE SUPER PASTE

"ENOLIN" IS ALSO SUPPLIED IN POWDER FORM, 6d. and 1s. TINS.

SOLE MANUFACTURERS & PROPRIETORS:
A. & E. CARRERAS, *Perfumers,*
207 King St., Hammersmith, London, W.6.

Selling Agents for
Provinces, Ireland and Export:
Messrs. Pattinson & Mackie, Ltd.
Albion House, 59 New Oxford Street,
London, W.C.1.

MOUSLEY'S
"BEAVERPUF"

Patent Nos. 4931 and 4932.
The Ladies' Natty Friend.

B. quality Brown Fur, 3/11 each, Retail.

G. quality Grey Fur, 4/6 each, Retail.

Additional Powder Bags, 6d. each, Retail.

Revolution in Powder Puff Manufacture.
Thousands already sold.
Now stocked by leading Wholesale Houses.
Usual Trade Discounts.

Patentee and Sole Manufacturer:
F. A. MOUSLEY,
Priest Bridge, Mortlake, London, S.W.14.

SALES
BEAT ALL RECORDS.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH.
LASTING & FRAGRANT.

FOR LINEN CUPBOARD AND WARDROBE.
On the P.A.T.A.
Retail Price ***6d.***

Of the Makers:
WILLIS, LOW & DRUIFF, LTD.,
6 Mortimer St., London, W.
AND ALL WHOLESALERS.

MAINTAIN YOUR PROFITS!

There is no need to reduce them!

125%

is the return for you on

REGISTERED TRADE MARK

ŌSYL TOOTH POWDER

P.A.T.A. 7½d.

Make your order out as below and send on to us for the SPECIAL WINDOW SHOW PARCEL

Please send me, carriage paid, with Window display matter:

7½d. ŌSYL TOOTH POWDER at **59/6** per gross.
7½d. ŌSYL TOOTH PASTE „ **67/6** „ „
1/3 ŌSYL TOOTH PASTE „ **135/-** „ „

with bonus of ½ **quantity** ordered on three dozen lots, for which I enclose cash and undertake to make counter and window display in return for above special terms.

LYSOL LTD., STRATFORD, LONDON, E.15.

LINDOL

DENTAL POWDER & PASTE.

These remarkable dentifrices are very high grade preparations, and cannot do other than give your customers the greatest satisfaction. Have you ordered your stocks? The margin of profit shown to the retailer on these lines is probably the highest obtainable, working out at from 112½ per cent. to 133½ per cent.

LINDOL DENTIFRICES are obtainable from your usual wholesaler in any quantity at the following prices :—

	Min. Retail P.A.T.A.	Price per dozen.
DENTAL CREAM.		
In tubes 4½″ × 1″, in cartons -	1/-	5/10
In tubes 4″ × ¾″, in cartons -	-/7½	3/8
DENTAL POWDER.		
In tins - - - -	1/-	5/6
In tins - - - -	-/7½	3/4

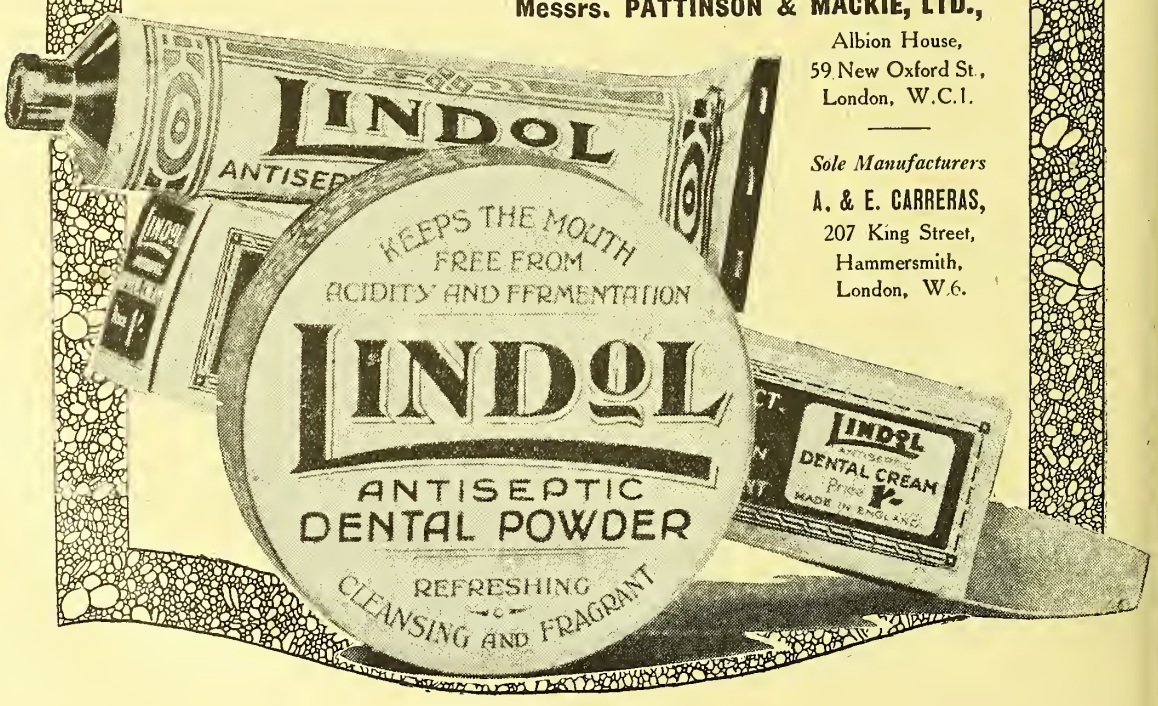
Terms.—Monthly account, 2½ per cent. discount. Cash with Order, an additional 1¼ per cent. discount.

Minimum direct parcel, **50/-**, unless cash is sent with order.

Selling Agents for the Provinces, Ireland and Export—

Messrs. PATTINSON & MACKIE, LTD.,
Albion House,
59 New Oxford St.,
London, W.C.1.

Sole Manufacturers
A. & E. CARRERAS,
207 King Street,
Hammersmith,
London, W.6.



Think it over!

THESE ARE JUST THE LINES YOU WANT.

"Leona" Series are of tip-top quality, beautifully packed, well advertised, leave you a good profit, and are on the P.A.T.A.

"LEONA" DENTAL CREAM

(Mint or Thymol)

Small Size ... Cost 4/6 per dozen Sell @ 7½d.
Large Size ... „ 8/- „ „ „ @ 1/3

Recommended by the Institute of Hygiene.

"LEONA" CREME DE BEAUTE

Cost 12/- per dozen Sell @ 1/6

A Delightfully Perfumed Vanishing Cream packed in handsome 2-oz. opal pots.

"LEONA" BRILLIANTINE (SOLIDIFIED)

Cost 8/6 per dozen Sell @ 1/-

Packed in beautifully embossed tins and cartons.

POUDRE "LEONA"

Cost 8/- per dozen Sell @ 1/-

Richly perfumed and packed in gold-blocked boxes.

Every Line is a work of art.

Ask your wholesaler to show them to you, and

YOU WON'T REGRET IT

Sole Manufacturers and Proprietors—
THE JACKSON CO., 172 St. JOHN STREET, LONDON. E.C. 1.

WAVCURL

THIS article has now been sufficiently long before the public to enable them to sample its merits. This the public have done on a large scale, and many delighted users have come again and again to the retailers they buy from for further supplies. The demand has been extraordinary. At first the proprietors tried to cope with it per post, but they soon saw that this was too cumbersome and tedious a method, and they are now gladly availing themselves of the services of the trade. Wavcurl is a first-class seller and a first-class payer, too. The profits are all they should be on a toilet line, as any reader can see for himself in the P.A.T.A. Protected List. Forty per cent (40%) should surely awaken your interest, especially in a line that sells at sight. All classes of ladies, from the titled dame to the busy factory worker, are using it as their readiest means of keeping themselves attractive, notwithstanding the great demand there is just now upon their time. To the user it is a great time-saver; to the seller, a great money-maker. We invite your application for Showcards and Dummies for window-dressing. A Wavcurl window-show in an industrial or factory area will simply make the shillings shower into your till. Address post card to

THE WAVCURL CO.,

FULWOOD HOUSE, HIGH HOLBORN, W.C. 1

	Per doz.
1/6 Wavcurl (in packets) ...	9/-
2/9 Wavcurl (in bottles) ...	21/-
1/6 Complexion Cream ...	10/-
2d. Shampoo Powder ...	15/- gross.

	Per doz.
1/6 Duvetine (Superfluous Hair Remover) ...	9/-
1/6 Wavcurl Hair Tonic (9 in Powdered Form)	9/-
1/6 Eyelashine	9/-
Showcards for Window } Dummies for Show }	no charge

Agents: PARIS.—A. W. Scott, 38 Rue du Mont Thabor. CANADA.—W. W. Barry, 1 Port Street, Montreal.

OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5% discount.
1/6	1/6	9/-	
2/6	2/6	15/-	
3/6	3/6	21/-	

SPECIAL BONUS

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size, to 4/6, 12/- and 27/- respectively.

Sole Proprietors—

C. R. HARKER, STAGG & MORGAN, LTD.
DEVON WHARF,
Emmott Street, Mile End, London, E.1.

D.D.D. Prescription

FOR ALL SKIN & SCALP DISEASES

A well-advertised, high-grade preparation, enjoying a steadily increasing sale. On the P.A.T.A. protected list, giving the retailer a profit of about 25%.

TRADE PRICES.

				per doz.
D.D.D. Prescription	2/9 bottle,	M.R.P. Face Value,	@	25/6
,, ,,	5/- ,,	,, ,,	,,	47/-

In two strengths—Ordinary and Strong.

				per doz.
D.D.D. Soap	1/- tab.	M.R.P. Face Value,	@	8/3
,, Shaving Soap ...	1/6 stick	,, ,,	,,	13/6
,, Vanishing Cream	2/6 jar	,, ,,	,,	22/6
,, Shampoo Powders	2/6 box	,, ,,	,,	22/6

Carriage paid to any part of the United Kingdom.

Showcards, &c., Supplied Free.

D.D.D. Co., Ltd.
3, 5, 7 Fleet Lane, Ludgate Circus, London, E.C.4

'KOPATINE'—93% on outlay

Kopatine preparations for the hair are advertised in a large number of papers including the Daily Mirror, Picture Show, Lady, Queen, Eve, etc. From this advertising a demand is springing up in all parts of the country. To induce you to take up a small stock and be in a position to supply, we are making you the following special bonus offer.

	Cost. £	s.	d.	Sells for £	s.	d.
6/12 Instantaneous 6/6 ...	2	4	3	1	19	6
3/12 " 10/6 ...		19	6	1	11	6
3/12 Al-Khanna 6/6 ...		12	0		19	9
	3	15	6			
3½ per cent. Cash discount		2	1			
	£2	13	5			
FREE.						
1 doz. No. 1				3	0	
½ doz. No. 2				6	0	
¼ doz. K.C. Dental Cream ...				5	9	
				£5	2	9

Outlay £2 13s. 5d. Profit £2 9s. 4d.
Practically 100 per cent.

Kopatine Instantaneous.—A liquid hair colouring (6 primary shades from blonde to black). Retails at 6/6 per case.

Kopatine Al-Khanna.—A permanent henna basis hair colouring shampoo. Retails at 6/6 per case.

Kopatine No. 2.—A splendid henna shampoo. Retails at 1/- per packet.

Kopatine No. 1.—A high-class plain shampoo. Retails at 3d. per packet.

To get your share of this growing trade you should take advantage of this offer to-day. Smaller quantities obtained from Osborne, Garrett & Co., or from the usual Wholesalers, or direct from—

Kopatine Cie (Dept. 22), 34 Buckingham Palace Road
London, S.W. 1. Telephone: Victoria 2648.

Oasis Toilet Preparations.

This exclusive series of dainty aids to the toilet constitute a selling line without equal. Their attractive appearance immediately claims the attention of customers who find them to be of such excellence that they quickly repeat. The terms leave a handsome margin to you for selling. These preparations are being extensively advertised in the best high-class illustrateds and magazines, etc.

YOUR WHOLESALER WILL SHOW YOU SAMPLES, OR OUR REPRESENTATIVE WILL BE PLEASED TO CALL UPON YOU WITH A FULL RANGE.

"Oasis" Dainty Toilet Aids for Discriminating Folk.

The General Chemical & Pharmaceutical Co., Ltd.
57–59 CHURCH ROAD, WILLESDEN, LONDON, N.W. 10.

WILLIAMSON BROS.

Puffs, Combs, Brushware,
Manicure Sets & Sundries.

Extract from C. & D. of Jan. 10th - - - "They have been able to obtain some lines which show excellent value for money."

54 LOWER THAMES STREET, E.C.3.
Phone: Avenue 5117

LOTOZONE

SHAMPOO DE LUXE

A superior tonic and hygienic Shampoo at a popular price. Packed in dainty slide cartons. Elegant in appearance and delightful in use. Perfumed with Irish Elegance. Counter boxes supplied.

TOILET PREPARATIONS

LOTOZONE TOOTH PASTE
LOTOZONE CREAM
LOTOZONE FACE POWDER
LOTOZONE POWDER PAPER

The Shampoo Salesman, free on application, gives full details of prices and profit.

Full particulars on request.

THE EVAN WILLIAMS COMPANY, LIMITED, 18 Ogle Street, LONDON, W. 1.

SAPON SOAPS SELL

Hundreds of Orders direct from the Public.

An Ornament to the Counter.

We want YOU to have this Business.

You should sell Sapon Skin Soaps :—

Because we, the makers, are entirely unconnected with any Combine.

Because Sapon Skin Soaps once used are always ordered. You will have a steady sale and the satisfaction of knowing that you are supplying the best. (Sapon Skin Soaps are recommended by many eminent Doctors.)

Because Sapon Skin Soaps yield a larger profit to you than any other make, while still being sold to the Public at a low price.

Write to-day for full particulars to

SAPON SOAPS,
LIMITED,
LONDON BRIDGE,
E.C. 4.

A. GIDLOW & CO.
(ESTABLISHED 1896.)
BROOM LANE, LEVENSHULME,
MANCHESTER.

MANUFACTURERS OF

SHAVING CREAMS

Packed in 1 lb., 2 lb., 7 lb.
Boxes and 56 lb. Cases.

Also Packed in Collapsible Tubes.

Proprietors and Manufacturers of

RENARD'S POMADE HONGROISE.

Samples and Prices on application.

Wholesale only.

What does your Customer say?

"Another box of———" or "A box of ————." The difference is important to you. It means either regular repeat orders or casual customers. The repeat order is most profitable, and Snowfire customers are always regular customers.

Snowfire

POWDERS

The Sure Cure for Chilblains

are very extensively advertised in the public Press and are in accordance with all claims made by us. Therefore they give satisfaction—produce repeat orders and bring you the consequent regular profit. It's all a matter of business—and Snowfire.

Write us for Price List.

F. W. HAMPSHIRE & CO., LTD.,
Riverside Works, DERBY.

SIANARA (Regd.)

(Pronounced Sigh-an-ah-rah)

JUDGING by the *repeat* orders received every week in the Factory, there are other people besides ourselves who know "Sianara" to be a good thing, and who, with us, have every confidence in it. It is a registered proprietary soap, retailing at the popular price of 5d. per tablet. It is triple milled and superfatted, and is free from colouring matter. One of its charms lies in its unique, enchanting perfume reminiscent of Old Japan. It is emollient in use and absolutely pure—you can safely recommend it to your customers to your own and their satisfaction.

Supplied in Standard 5d. size and shape, and in 5d, 7d., 8d., and 10d. Round Bath.

Est. 277 years is a guarantee of the quality.

J. C. & J. FIELD, Ltd., *TOILET SOAP EXPERTS,* **Upper Marsh, Lambeth, S.E. 1.**

For LARGE BUYERS For SHIPPERS

Good Toilet Goods

SHAVING STICKS.
BRILLIANTINES,
DRY SHAMPOO (Liquid and Powder), BAY RUMS, TOILET PARAFFINS, LIME CREAMS, POMADE HONGROISE, TOOTH POWDERS, DENTAL CREAMS, VANISHING CREAMS, SHAMPOO POWDERS, and all TOILET GOODS.

SAMPLES AVAILABLE

C. A. STOKES & CO., Ltd., 11 Eclipsol Works, BRISTOL

WE ARE ACTUAL MANUFACTURERS OF

POWDER PUFFS

Send for Price List of our Special Lines of Wool Pads and Mignonnettes.

WHOLESALE AND EXPORT ONLY.

BRUSSELS. **THEO. VAN DER HEYDEN,** PARIS:

118-122 HOLBORN, E.C. 1. Tel.: Holborn 1873.

17 Rue de la Grange Bateliere.

Violiv

Making Money work hard on "Season" goods

By TREBOR.

As a business man—I am always looking for the "good things."
Now, although a Season Seller is in this category—I am not at all satisfied until I am assured it is a "repeater."
After all—business is not a thing of "the immediate." It is of the future, if it is to be successful. And—the repeater is the line for my money, because the turnover is quicker. With goodwill accruing, as a consequence of stocking the good "goods," I am increasing my business all round, and solving in a sound business way the question of ever-increasing on-cost.

Here is a line as a case in point. The "Cream" Season is on the horizon. VIOLIV CREAM is a ready "repeater"—because it is the RIGHT thing.
It sells at sight—customers are thoroughly pleased with it, and ***come back*** for other lines as well. My outlay on VIOLIV therefore influences other goods—so it is really worth much more than the generous **74** % it carries. And—I am preparing now for that season. Are YOU?
Check off this simple sum—it shows how Violiv Cream will "turn" over your money handsomely.

1 gross @ 144/- ...	£7	4	0
Cash discount 2½ %	0	3	7
	£7	0	5

Realises:
1 gross plus Free Bonus 1½ doz. = 162 Pots @ 1/6 each retail £12 3 0
Profit on outlay 74 % £5 2 7

VIOLIV MFG. CO.
26 Haymarket Terrace, Edinburgh.
Selling Agents for England & Ireland.
Pattinson & Mackie, Ltd
Albion House 59 New Oxford St., London, W.C.1.
V16 NorAd

SOLID BRILLIANTINE

No. 3394.
In Green Enamelled Oval Tin Boxes. Assorted Odours.
7/6 doz.

No. 3171.
In Green Enamelled Square Tin Boxes. Assorted Odours.
5/6 doz.

Customer's name free on 3 dozen of a kind.

Subject to Usual Terms.

Manufactured by

WILLIAM TOOGOOD, LTD.
77 Southwark Street, LONDON, S.E. 1.

IT PAYS TO PUSH

THE LARGEST SALE OF ANY TOILET SOAP IN THE WORLD.

'ITS QUALITY MAKES IT A LUXURY SOAP." "ITS MODERATE PRICE AN ECONOMY."

REVISED PRICE LIST

SPRING ADVERTISING CAMPAIGN.—*February*, 1920.

	Cost per doz.	Retail Price
1. Palmolive Soap	6/-	9d.
2. Palmolive Lavender Bath ... (White Floating Soap)	4/4	6½d.
3. Palmolive Lavender Bath ... (White Floating Soap)	2/-	3d.
4. Palmolive Cold Cream (Jars) Same as original Palmolive Cream.	20/-	2/6
5. Palmolive ,, ,, (Tubes)	10/-	1/3
6. Palmolive Vanishing Cream (Jars)	20/-	2/6
7. Palmolive Vanishing Cream (Tubes)	10/-	1/3
8. Palmolive Shaving Stick ...	16/-	2/-
9. Palmolive Shaving Cream ...	16/-	2/-
10. Palmolive Shampoo	24/-	3/-
11. Palmolive Talcum Powder ... (White and Rose)	14/-	1/9
12. Palmole Face Powder (White, Rose and Brunette) Our Brunette Powder is similar tint to Rachel.	Not yet on sale.	
13. Palmolive Face Powder ... (White, Rose and Brunette) Our Brunett Powder is similar tint to Rachel.	20/-	2/6
14. Cleopatra Divine Face Powder ... ... (White, Rose and Brunette) Our Brunette Powder is similar tint to Rachel.	Not yet on sale.	
15. Palmolive Rouge (Vanity Box with Mirror) ... ... (Light and Dark Brunette)	16/-	2/-
16. Palmolive Compact Combination (Face Powder, Rouge, Two Mirrors)	Not yet on sale.	
17. Palmolive Lip Rouge... ...	12/-	1/6
18. Palmolive Toilet Water	Not yet on sale.	

On the P.A.T.A. List. Showing 33⅓% Profit.

Palmolive Cream Tubes No. 5; Vanishing Cream Tubes No. 7; Shaving Cream Tubes No. 9; are packed 1 doz. in smart carton, printed three colours, and serves for display. Remember 75% of goods are sold through the eye.

SPECIAL TERMS.

5% allowed on 5 gross Palmolive Soap, 72/- per gross, and on 4 gross Lavender Bath Soap, 52/- per gross. Carriage paid on one gross and upwards.

Write for Showcards, Price Lists and Display Matter.

THE PALMOLIVE COMPANY,

13/14 GREAT SUTTON STREET, GOSWELL ROAD, LONDON, E.C.1.

Works: TORONTO, CANADA.

PROFITABLE BUSINESS

CAN BE DONE IN

Toilet Preparations

PROVIDED THE QUALITY, GET-UP, AND PRICES ARE RIGHT.

OURS ARE

Let us send you a sample of any one of the undermentioned Preparations:

A postcard will bring it, together with a complete set of labels, price list and our special offer of a handwritten showcard.

Brilliantines (clear or with spirit). Bay Rum. Toilet Paraffin. Bay Rum and Cantharides. Violet Oil. Hair Cream. Dry Shampoo (liquid). Cold Cream. Hair Tonic. Skin Cream. Shampoo Powders (Wet, Dry and Henna). Solidified Brilliantine. Lime Cream.

RAYMET & CO., LTD.

507-509 HARROW ROAD, LONDON, W. 10.

THE ONLY POPULAR SHILLING FACE CREAM ON THE MARKET

Ven-Yusa Cream

IS STILL ONE SHILLING.
GIVES YOU 33⅓% PROFIT ON SALE
BEST TERMS FOR **50/-** PARCEL

DAINTY AND ATTRACTIVE FOR THE COUNTER.

BEAUTIFUL SHOWCARDS SUPPLIED.

Any War Packages (Plain Corks) exchanged Free of Cost.

Write for Window-Show Terms to

C. E. FULFORD, Ltd.

CARLTON HILL, LEEDS.

Mr. Fred BARNES, writing from the London Palladium, says:—"Cinema Soap is without question the best and most delightful soap for the skin I have ever used, whilst Cinema Dentifrice is a wonderful preparation. For a long time I have been trying to discover a dentifrice which actually does whiten the teeth without injury. Hundreds of preparations claim to do this, but all they really do is to polish up the surface. I have used Cinema Dentifrice with splendid results. Not only does it make the teeth snowy white, but it has, I find, a tonic effect on the throat, a fact very important to all artistes. I think it is a wonderful preparation, and gladly recommend it to my brother and sister artistes.—Faithfully yours, FRED BARNES."

Miss VIOLET VANBRUGH and hundreds of other well-known stars use and recommend these super-toilet specialities. They are the latest and best in the world.

London's Famous Stars

Use and Recommend Fragrant

CINEMA SOAP

The Cream Soap "Exquisite"

WILL MAKE YOUR FACE A PICTURE

Trade Mark Copyright at home and abroad

Our Special Offer

Cinema Soap is wrapped and packed three tablets in a box which retails at 2/6, single tablets sell at 10½d. each. Our price is 22/6 per dozen boxes. Every Chemist sending for one dozen boxes *within 14 days* will receive

Three dozen Cinema Crushed Rose Face Powder Free, together with sale cards, cinema photos, and advertising matter; also we will send, by special arrangement with the Amalgamated Press, Ltd., 500 copies of "The Picture Show" free of charge. Just figure this value out and send without delay. Cross cheques and P.O.s.

THE CINEMA SOAP COMPANY, Ltd.,
(Dept. 22) 22 Finsbury Park Rd., London, N.4.

Balmoline

A Line Worth Handling

Balmoline No. 1.

Solidified cream put up in a new and handy form. A first-class product neatly and attractively packed, well advertised, and showing a living profit.

Balmoline No. 2.

A more concentrated preparation with soothing and refreshing astringent properties. Relieves aching and tired feet in a few seconds. Unequalled for insect and mosquito bites.

PRICE 10/- PER DOZ.

On a 6-dozen order a bonus of one dozen and free advertisement in your local paper.

Balmoline sells at 1/3

Carriage paid on all quantities. Plenty of high-class show matter supplied. Send for particulars of Balmoline at once, it is a sure repeater, sells itself, and brings a handsome profit.

Balmoline Manufacturing Co.
10 Railway Street, CHATHAM.

PERFUMERS! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmanship and prompt delivery. Ingredients supplied if desired at lowest market prices. Write, stating requirements.

MARTIN & CO., 71 City Road, Finsbury, London, E.C.1.

All Chemists and Stores adjacent to **Theatres** and **Music Halls** shoul stock the famous

LEROZA Theatrical Cold Cream and Grease Paint Remover.

Used and recommended by all the leading artistes, including The Two Bobs, Ernie Mayne, Miss Victoria Monks, Shaun Glenville, and scores of others too numerous to mention. Sells at **1/9** per tin box (about 11 oz.) costs **15/6** per dozen carriage paid. **Cash with order.**

From the Sole Inventor and Manufacturer, ARCHIBALD MOLE-FLOYD

The LEROZA THEATRICAL STORES, 71, 73 & 75 Cambridge St., Glasgow.

STRODONIA Vanishing Cream.

NOW SUPPLIED IN

ALUMINIUM SCREW-CAPPED JARS.

10½d. size—7/6 doz. 1/3 size—10/6 doz.

FROM LONDON WHOLESALERS.

Direct orders value **£5**, subject to **1** doz. 1/3 size Bonus for window display and 5% discount cash, one month; **£2/10/0** subject to ½-doz. 1/3 size Bonus for window display, net; **£1/10/0** subject to ½-doz. 1/3 size Bonus for window display, net. Carriage paid on **£1/10/0** upwards.

STRODE COSH & PENFOLD, Broadmead, BRISTOL.

Unique BONUS OFFER for

SNOWLEEN

The Face Cream with the largest Profit.

Snowleen Day Cream. Snowleen Night Cream. Snowleen Flesh-Tinted.

The Biggest Profit on any advertised Vanishing Cream yet offered to Chemists.

BONUS OFFER No. 16.

1 gross Snowleen 1/- @ 92/-.....£4 12 0
1 doz. Snowleen 1/-
2 doz. Snowleen } FREE
Shampoo 3d.
Produces £8 2 0, or **82** % Profit.

BONUS OFFER No. 17.

½ gross Snowleen 1/- @ 92/-.....£2 6 0
½ doz. Snowleen 1/-
½ doz. Snowleen } FREE
Shampoo 3d.
Produces £3 19 6, or **80** % Profit.

Write for samples

WHITE BAND MFG. CO., Limited,

CROYDON, SURREY.

TOILET GOODS

PACKED IN

COLLAPSIBLE TUBES.

White "X" Series.

	4 × ¾	4 × 1
Toilet Lanoline ...	4/3	6/9
Antiseptic Honey Jelly	4/3	6/9
Milk of Cucumber ...	4/3	6/9
Oatmeal Cream ...	4/3	6/9
Witch Hazel Cream ...	4/3	6/9
Best Cold Cream ...	5/6	7/9

TOOTH PASTES

(White "X")

Cherry, Areca Nut, White Rose, Carbolic, Formalin and Mint, Thymol, etc. — 4/3 6/9

If each in a carton, 6/- per gross extra.

SPECIAL LINE

SPLENDID SELLER.

Antiseptic Tooth Paste 5/3 dozen (White "X") each in carton.

Pomade Hongroise, 4×¾ 4/3 doz.

Special Quotations for Quantities.

"X Series" TIN BOXES

In Variety. *Inquiries Esteemed.*

THE

Chemists' Manufacturing Co., Ltd.

WITH WHICH IS INCORPORATED

SHIRLEY BROS.

Whitecross Works,

123/125 Newington Causeway - - S.E.1.

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - A complexion soap.	10/-	1/-
PROLACTUM - - For the lips.	10/-	1/-
PARSIDIUM JELLY - For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM - - A hair tonic.	22/6	2/6
CLEMINITE - - For a face lotion.	22/6	2/6
COLLIANDUM - - For a face tint.	22/6	2/6
PERGOL - - - A deodorant.	22/6	2/6
STALLAX - - - For a shampoo	22/6	2/6
JETTALINE - - For clearing the skin.	31/6	3/6
PHEMINOL - - A depilatory.	36/-	4/-
MENNALINE - - For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL - - - For oily complexions and blackheads.	36/-	4/-
BARSYDE - - - Dandruff eradicator.	22/6	2/6
TAMMALITE - - For grey or faded hair.	22/6	2/6
LIQUID PERGOL - To check excessive perspiration locally.	31/6	3/6
BICROLIUM - - For whitening the hands.	22/6	2/6
HARAPOSA - - - Nut oil shampoo.	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:
ALL WHOLESALERS and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY Ltd. (Johannesburg)

INDIA:
KEMP & CO., Ltd. (Bombay).
R. MACLURE (Madras).
SMITH, STANISTREET & CO. (Calcutta).
MEHTA BROS. (Calcutta).
JAMNADAS BROS. (Bombay).

NEW ZEALAND:
SHARLAND & CO., Ltd. (Auckland & Wellington).

SOUTH AMERICA:
DEARBORN, Ltd., Calle Salta 264, Buenos Aires.

It is important to note that each Bottle is guaranteed airtight under all climatic conditions

"KRASKA"

USED BY ROYALTY.

The only Perfect Liquid Nail Polish.

MADE IN TWO COLOURS, ROSE AND NATURELLE.

Kraska Nail Polish ...	small	9/6 per doz.	Retail 1/2	each.
,, ,, ,, ...	medium	12/6 ...	... 1/8	,,
,, ,, ,, ...	large	19/- ...	... 2/9	,,
,, Hand Balm ...		10/- ...	... 1/2	,,
,, Bleaching Fluid		10/- ...	... 1/2	,,
,, Cuticle Cream		10/- ...	... 1/2	,,

Obtainable at All Wholesale Houses.

SOLE AGENTS:

FRANCISCO MAYER, Casilla 2869, Santiago, Chili.
C. E. COLLINGE & CO., 143 Cannon Street, London, E.C.4 *China & Straits Settlements.*
Mr. J. WINKEL, 21 Bierkade, The Hague, Holland.
A. E. & F. TOLLEY, Ltd., 26 King Street, Sydney, N.S.W. *Australia, New Zealand, India.*

Other Agents Entertained.

THE KRASKA CO. LTD.

7 BLENHEIM STREET, NEW BOND STREET, LONDON, W.1.

PROPRIETOR — A.H. GLOVER.

Best **Delphinus** MFG. CO. British

TRADE MARK.

SPECIALITIES

Nail Polish, Antiseptic
Cloth Cleaner, Styptic Pencils &
Solidified Brilliantine, Shaving Blocks,
Dental Cream, Pomade Hongroise,
Bay Rum, Dry Shampoo,
Etc.

Maximum Quality! *Minimum Cost!*

Exports to all parts. CABLEGRAMS HONGROISE BRIGHTON. *Enquiries invited.*

COPYRIGHT.

45 Edward St., TELEGRAMS *Brighton.*

BRUSHES for EXPORT

Lines found very suitable for high-grade
ENGLISH TRADE.

No. 675	Bone Handle	Per gross	26/-
„ 1151	Celluloid Handle	„ „	47/-
„ 1017	Bone Handle	„ „	37/-
„ 1709	Celluloid Handle	„ „	34/-
„ 1916	Bone Handle	„ „	59/-
„ 2204	„ „	„ „	70/-
„ 2205	„ „	„ „	71/-
„ 2706	„ „	„ „	82/-

C.I.F. Liverpool. Orders for a minimum of 120 gross (or 1 ton). Any decline in exchange below 2/6 per Y 1.00, or in freight rate, will correspondingly reduce C.I.F. price.

Quality absolutely guaranteed. Price firm till Dec. 1st. 10% up after that date Cable your order and advice of credit, and forestall the increased price.

THE MUTUAL BRUSH CO.,
24 Nakayamate-dori 2-chome,
KOBE, JAPAN.

Cable Address: "SIMSLAND."
Codes: Bentley's, Western Union, ABC, 5th Edit.
Entirely British and American Owned.
"Your satisfaction means our success."

BIDWELLS LTD.

RELIABLE TOOTH BRUSHES.

Gloria Silverdrawn (Assorted Patterns.)	20/-	doz.
ditto Hard, White or Yellow	22/-	„
ditto Ex. hard „ „	24/-	„
Mitre - - -	16/-	„
Elephant - - -	14/-	„
Anchor - - -	12/-	„

GROSS LOTS NAMED FREE. CARRIAGE PAID.

We do not Sell Foreign Tooth Brushes, but our own make only.

A selected £12 parcel of Hair Brushes from 50/- to 150/- per doz., carr. paid.

Made at our Factories, AXMINSTER, DEVON.

Guaranteed free of Anthrax

SHAVING BRUSHES

French made—Delivery from London Stock.

Camel Hair Brushes, Combs, Hypodermic Syringes (French).

Wholesale and Export only supplied.

A. E. DEPRETER, 24 Holborn, London, E.C.1.

Telephone: Holborn 3182. Telegrams: "Aedeprelon, Smith, London."

MERCERISED CORDS

FOR TYING-UP PERFUMERY, &c.
CORDS FOR SPONGE BAGS
CORDS FOR SOOTHERS
MEDICAL TWINES
ALL SIZES AND COLOURS IN STOCK

The Albion S.C. Co., Ltd. FAWLEY MILLS, TOTTENHAM, **London, N.17**

PHONE—1121 TOTTENHAM. TELEGRAMS—"ENGAGED, PHONE, LONDON."

COMBS

Combs are always in demand and the Chemist who displays them gets the Business. Below is a selection of good selling lines—try a few of them.

Ladies' Dressing Combs

No.		Size	Per Doz.
171	White celluloid... ...	7 × 1½ in.	6/6
103	Black ,, ...	7 × 1½ in.	6/6
102	,, ,, ...	8 × 1¾ in.	7/6
112	Dove colour, non-inflammable	8 × 1½ in.	9/-
123	Assorted ,, ,,	7 × 1¼ in.	9/-
121	Black celluloid burr grailled ...	7½ × 1¼ in.	13/6
116	Shell ,, ,, ...	7½ × 1¼ in.	13/6
173	Black ,, ,, ...	8 × 1½ in.	14/6
168	White ,, ,, ...	7½ × 1¼ in.	18/-
150	,, ,, ,, ...	8 × 1½ in.	24/-
106	,, ,, ,, ...	8 × 1¾ in.	27/-

Ladies' Rake Combs

No.		Size	Per Doz.
167	White celluloid burr grailled ...	6½ × 1¼ in.	12/6
117	,, ,, ,, ...	7½ × 1½ in.	21/-
115	,, ,, ,, ...	7½ × 1¾ in.	22/-
174	,, ,, ,, ...	8 × 1¾ in.	27/-

Gents' Dressing Combs

148	Mottled colour, non-inflammable	5½ × 1 in.	8/-
140	White celluloid... ...	7 × 1 in.	9/-
143	Black vulcanite ...	7 × 1 in.	10/6

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163	Special line, assorted, in cases ...		4/6
175	Shell celluloid, in cases	4½ × ⅞ in.	7/6
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YOUNG HEALEY, Featherweight :—"I strongly advise all profes boxers to use both Alkia Saltrates and Reudel Bath Saltrates, as I do myself, regularly." Jonny He

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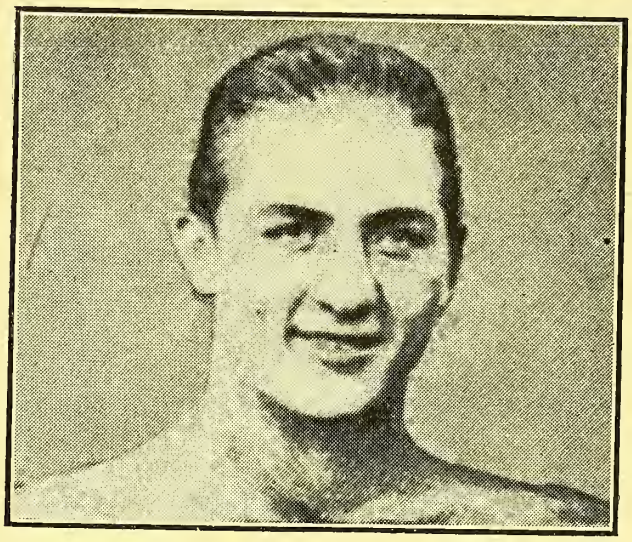

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ia is the best system-cleansing and tonic drink for anyone who suffers ars any form of ill health. Reudel banishes rheumatic or muscular and aches within ten minutes.
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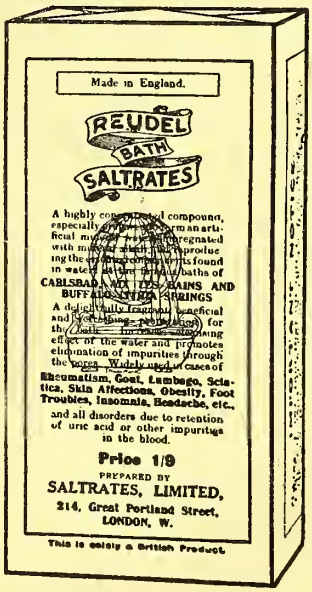
have hundreds of similar letters which of space prevents our reprinting here.

r files we have numerous other highly commendatory s received from the champions and leaders of cally every branch of sport. They will be published time to time in other series of advertisements.

REUDEL BATH SALTRATES.



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BEST WATERGLASS

For Egg Preserving.

Packed in thoroughly sound containers. Agent's own name and title on labels. Write for specimen label and terms.

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GUARANTEED PURE GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

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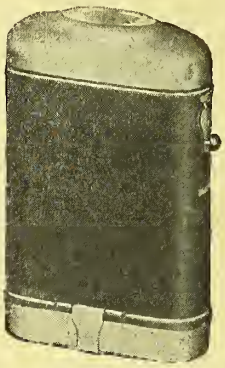

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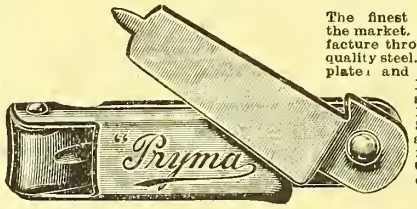
(BRITISH MANUFACTURE)



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LIQUID PARAFFIN

Issued in bottles of 4 oz. at 18/0, per doz. and 1 lb. at 54/0, per doz. (subject)

Has exceptional quality. Water-white, tasteless and odourless. It has the correct viscosity for use as an intestinal lubricant.

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Issued in glass jars at 24/0, per doz. (subject)

A pleasantly-flavoured, jelly-like confection, containing approximately 80% of 'Paroleine.'

Ideal for those who are unable to take even the finest liquid paraffin on account of its oily nature.

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VANISHING CREAM.

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Retails at 1/3 Wholesale Price 10/6 per doz.

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"JASMOL" is a line that repeats many times over when once introduced.

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'Ialine Disinfectants

Also
FLUIDS
containing
10 — 80 %
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High Co-efficient
FLUIDS
up to 18—20
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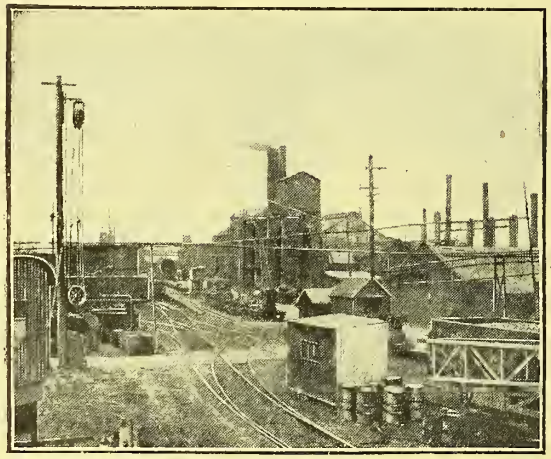
Method.

LYSOL

SHEEP DIP

Approved by the Board of Agriculture for Sheep Scab.



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" CANDLES
" TABLETS
" FLAKE
" BLOCKS
" POWDER
LIQUID SANITARY SOAP
WOOD PRESERVATIVE
ETC. ETC.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in the Overseas Dominions.

Subscription Rates. TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy 9*d*. post free; *Diary*, 5s. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

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Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 20ch., franco.

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HEAD OFFICE: 42 CANNON STREET, LONDON, E.C. 4.

Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (three lines).

BRANCH OFFICES: MELBOURNE AND SYDNEY, AUSTRALIA.

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Business Changes.

Mr. W. E. Jones, chemist and druggist, Hall Street, Rhos, Ruabon, has opened a branch in Market Street.

Mr. W. H. Rees, chemist and druggist, has acquired the business of Mr. F. J. Nash, chemist and druggist, Newtown, Montgomeryshire.

The business of Mr. J. E. Monaghan, chemist and druggist, has been transferred from 269 Balham High Road, London, S.W. 17, to 279A Balham High Road.

Mr. W. Smith, chemist and druggist, late manager for James Wood, Ltd., chemists, Ilkeston, has purchased the business of Mr. T. L. Pollock, chemist and druggist, Church Street, Rugby.

Mr. C. E. Bell, chemist and druggist, who recently sold his two businesses at Stapleford, Nottingham, to Boots, Ltd., has purchased the business of Mr. E. B. Brigham, Ph.C., 28 Lark Lane, Sefton Park, Liverpool.

J. R. Bedford & Co., chemical manufacturers' agents, merchants, and importers, have removed from Philpot Lane, E.C., to larger premises at 6 Holborn Viaduct, London, E.C. 1. 'Phone number, City 1765; telegraphic address, "Bedreva, Cent, London."

One American at least, relates a Scottish daily paper, had respect for our Inland Revenue authorities when he discovered that, owing to the import-duty on sugar, he would have to pay hundreds of pounds on the sugar-coated pills that he proposed to send over. Perhaps!

Experiences of the Great War.

Contributions to this section are invited.

XXXI.—Thrills with a Convoy.

We had arrived in harbour from one of the usual "stunts," and having got ready for sea again, we were lying quietly alongside the "Penns" at Rosyth with another destroyer. After dinner that night a signal came through to the effect that we with another destroyer were to escort two oilers to a certain place, and then proceed to Glasgow for a refit. How joyously we all received that signal! For it meant that at the end of the trip we should have ten days' leave while the ship was refitting. Early the next day we slipped from our berth, and proceeding under the Forth Bridge we made for the mouth of the river. Anchored in the bay were our two *protégés*, oil-tank steamers or oilers. They were American ships grotesquely camouflaged, and two of the largest oilers in the world. It was a glorious summer morning, with the sea as smooth as glass, and the accompanying destroyer and ourselves tied up alongside the nearer oiler, where we looked just like toys. Our motor-boat was then lowered, and I was ordered to bring back the captain of the other oiler to our ship for a conference, which I did. The oilers were bound for New York, and we were to escort them through the danger zone, whence they would proceed alone, until they were met by another escort to take them through the American side of the barred area. Elated at the prospect of leave, we got under way about noon, and the convoy proceeded north. We were doing the usual anti-submarine zig-zag, and all was going well till about 6 P.M., when we observed two of our airships flying towards us, and we received the following

Depth Charge in Position.

signal from the leader: "Submarine in vicinity." The officer on the bridge immediately pressed the alarm gong, and we rushed to action stations, and closed to protect the oilers. As midshipman, my station was to control the after gun. The foremost airship came down low to spot, and the submarine was sighted off our starboard bow. The other destroyer, being nearer, gave chase, and dropped a depth charge. We waited a little while for her to reappear, but in vain, so we cautiously proceeded on the journey, with the additional support of the aircraft. We were now about ten miles off a lonely part of the Scottish coast, and half an hour later one of the airships spotted the submarine again. She had stealthily and very cleverly followed us until she could see a more favourable opportunity for attack. The airship dropped a buoy to mark the position, which was very near us. Rushing along at a good 30 knots, we dropped one depth charge, and we were not troubled again. When on leave a friend on the airship told me most enthusiastically that he had good reason to believe that she went to Davy Jones's Locker. The airships kept us company until nightfall. The next day again dawned fine and clear, and as our two great charges were capable of quite a respectable speed we proceeded along right merrily. In the afternoon, however, we ran into a thick fog. We stopped zig-zagging

and proceeded on a regular course, dead slow. We were having tea in the ward-room at the time when suddenly we heard the terribly loud shriek of a fog syren. Rushing on deck, we saw looming out of the fog, a foot or two from our stern, coming bows on, the towering great hull of one of the oilers! In that appalling darkness she had strayed from her course. Only the quick decision of the first lieutenant, who was on watch on the bridge, saved us, for by going "full ahead" we just avoided the oiler. It gave us all rather a nasty turn for a few seconds. The fog cleared that night, and the following morning, having passed the submarine area, we bade farewell to the oilers.

L. P. Spero (Midshipman R.N.V.R.).

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

Report on the February Analytical Exercise.

The powder distributed to students on February 17 contained two parts by weight of zinc hydroxycarbonate, two parts of magnesium hydroxycarbonate, and one part of ammonium dihydrogen phosphate. The calculated composition of such a mixture is:

Zn	22.9
Mg	10.2
NH_4	3.1
CO_3	25.8
PO_4	16.5
OH	11.5
H	0.4
H_2O	9.6
	100.0

The powder also contained, as impurities, distinct traces of sodium and of the sulphuric-acid radical and a faint trace of iron.

Samples of the powder were distributed to ninety-four students, and forty-six reports were sent in for examination. Zinc and the carbonic-acid radical were detected by the writers of all these reports. Magnesium was missed in eleven cases, ammonium in four, and the phosphoric-acid radical in three. Seventeen students failed to observe the evolution of water when the powder was heated in a dry tube. The trace of a sulphate was overlooked in twenty-eight cases.

Although introducing the complication which arises in the analysis of insoluble phosphates, this exercise was almost as simple an example of its kind as could be presented. The varying modes adopted by different students in dealing with the phosphate precipitate which was produced on adding ammonium chloride and excess of ammonium hydroxide as group reagents suggest a few points which are worthy of comment:

1. Some students first separated this precipitate by filtration, washed it thoroughly, and then submitted it to the familiar process for removing the phosphoric-acid radical by means of ferric chloride in the presence of acetic acid and ammonium or sodium acetate. Afterwards they tested separately for metallic radicals in the filtrate from the precipitated ferric phosphate and basic acetate and in the filtrate from the original phosphate precipitate. When properly carried out, this procedure gave good results, but a few students omitted to examine, in some cases, the one, in some the other, of the two filtrates just referred to (or, at least, they omitted to report upon the examination of both).

2. Others, without filtering, re-dissolved the precipitate in hydrochloric acid, nearly neutralised the solution, and separated the phosphoric-acid radical in the usual manner as ferric phosphate. Afterwards they tested the filtrate from the latter for metals of the zinc and subsequent groups. This method was also quite satisfactory when correctly applied, but one or two students were slightly shaky in testing for aluminium in the filtrate from the ferric phosphate, overlooking the fact that, had aluminium been present in the powder, it would have been separated already in the precipitate as phosphate, in association with the iron.

3. A few proceeded so far, as in 1 above, but, having separated the phosphoric-acid radical as ferric phosphate, they mixed the filtrate from this with the original filtrate from ammonium chloride and excess of ammonium hydroxide, without examining whether or not the latter filtrate still contained the phosphoric-acid radical. As it happened, the original filtrate did not, in this particular case, contain this radical, but, had a much larger proportion of ammonium phosphate been employed in preparing the mixture, excess of the radical would have been present in the filtrate, and the net result of the mixing of the two filtrates as described above would have been to leave the phosphate problem in almost exactly the same position as it was prior to the acetate separation. This illustrates the importance of ascertaining whether the phosphoric-acid radical is still present in, or is absent from, the filtrate from a precipitate known to contain this radical.

Although barium sulphate is an almost insoluble substance, its precipitation from moderately dilute solutions of sulphates only takes place somewhat slowly, and this is probably the reason why comparatively few students detected the trace of a sulphate present in the powder. When barium chloride does not produce an immediate precipitate in a solution acidified with hydrochloric acid, the mixture should be set aside for at least five minutes before a decision is arrived at regarding the presence or absence of a sulphate.

Prizes.

The first prize for the best analysis has been awarded to

Elizabeth Sim, Cemetery Lodge, Kelso.

The second prize has been awarded to

Cyril T. Hines, Norfolk House, Danvers Road, Hornsey, N. 8.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the publisher naming the book or books they select.

Marks Awarded for Analyses.

1. *Correspondents who are unqualified:*

Elizabeth Sim (first prize)	96	Scout	88
Cyril T. Hines (second prize)	95	N. H.	87
Hirudo	94	Perlo	86
Nitrosyl	94	Pussyfoot (Stockwell)	86
Osmium	94	Meta	84
Hydrate	93	Neon (Leeds)	81
Mytosis	93	Gee Eff	80
A Mon Avis	92	Pentane	78
Bruggles	91	Ashes	77
Krap	91	A. Z.	76
N. B. P. B.	91	Pussyfoot (Birmingham)	76
Secundus	91	J. C. S.	74
M. B.	90	Man Friday	74
Pericycle	90	M. H. P.	74
Cyanamide	89	$(x+y)^2$	74
Dorema	89	A. M. M.	73
Evo	89	Benzaldehyde	70
M. F. S. H.	89	Dizo	70
Radio	89	Gintario	70
Smilax	89	Plus Barbe	64
T. E. P.	89	Isoprene	57
H_2O	88	Cruciferæ	43

2. *Correspondents who are qualified:*

Amateur	89	Prospector	91

To Correspondents.

C. T. Hines.—The faint colour you observed in testing for a nitrate with ferrous sulphate and sulphuric acid may have been due to traces of nitrogen oxides present in the acid. Try a blank test with the acid.

Hirudo.—When ferric chloride is employed in separating the phosphoric-acid radical from the solution of a phosphate precipitate, the filtrate from the precipitated ferric phosphate and basic acetate need not be tested for aluminium, since this metal, had it been present, would already have been separated as phosphate in association with the materials of the last-mentioned precipitate.

Osmium.—The point you mention, of testing for sodium in the filtrate from the various metals separated from the original phosphate precipitate, does not arise in practice, since this precipitate, when properly washed, does not contain the soluble salts (including phosphates) of the alkali metals.

Hydrate.—You are not expected to prove the presence of oxides or hydroxides. In many cases this could not be done except by quantitative analysis, and sometimes not even by this means.

Mytosis.—The powder did not contain sensible traces of a chloride. The chloride you found was most likely an impurity in the nitric acid. Read also the reply to "Osmium."

A Mon Avis.—The powder yielded about one-sixth of its weight of water when heated in a dry tube, and this quantity was much too large to be overlooked in a carefully conducted test.

Bruggles.—The precipitate in which you thought you detected aluminium should not have made its appearance in the solution containing ammonium acetate and free acetic acid; but note that this solution should only have been gently heated and not boiled.

Krap.—The evidence for the presence of a benzoate was not sufficiently definite for a decision. Read also the reply immediately preceding.

N. B.-P. B.—Note that in the "acetate" separation by means of ferric chloride, addition of the latter in excess does not produce a red precipitate but merely a red coloration, due to ferric acetate; and also that the boiling of the mixture—which must not be omitted—converts the dissolved ferric acetate into insoluble basic ferric acetate, which is brown.

Secundus.—The chloride detected was most likely present as impurity in the sodium carbonate used.

M. B.—Why does your otherwise distinctly explicit report become hazy where you proceed to "confirm" a carbonate by means of magnesium sulphate? You state that a few drops of solution of this reagent gave a precipitate (properties not mentioned) at once, but you give no hint as to what the reagent was added to. The precipitate was perhaps ammonium-magnesium phosphate, but this could have no value as evidence regarding the presence or absence of a carbonate.

Cyanamide.—If your report is a correct record, you evidently carry out frequent filtrations where there are no precipitates to separate—to what purpose is not at all evident. Read also the replies to "N. B. P. B." and to "M. B."

Dorema.—By some inadvertence you omitted from your report the examination of the filtrate from the phosphate separation, in which part of the magnesium was present. The fact that you "confirmed" the presence of a bicarbonate (which was not present) by means of mercuric chloride admirably illustrates the uselessness of this reagent for that purpose—a matter to which we refer over and over again, but apparently to little purpose.

Evo.—On adding ferric chloride to a part of the prepared solution for acids as a test for a phosphate, you report a yellowish-white precipitate, but on adding the same reagent to another part of the same solution as a test for a benzoate or a succinate, you report no precipitate. These statements require some explanation.

M. F. S. H.—Magnesium was present both in the original phosphate precipitate and in the filtrate from this precipitate, whereas you detected it in the latter only. It was not very accurate to describe the powder as insoluble in water, seeing that 20 per cent. of it dissolved.

Radio.—The greasy appearance, suggesting a fluoride, was not striking—a conclusion at which you evidently arrived yourself, since you did not include a fluoride in the summary of constituents.

T. E. P.—In testing for acid radicals you report calcium chloride as yielding in an acetic-acid solution a white precipitate insoluble in hydrochloric acid. The powder did not, however, contain any constituent which could give this reaction, and some mistake has crept in.

H_2O.—You report that on dissolving the original phosphate precipitate in dilute hydrochloric acid, adding sodium hydroxide to part of the solution, and boiling, no precipitate was formed. What became of the magnesium, however, which this precipitate contained?

Scout.—Addition of calcium hydroxide in excess to the original solution of the powder in hydrochloric acid would no doubt bring about the precipitation of some magnesium and also of some calcium as phosphates, but the unexamined precipitate could scarcely be adduced as confirmation of the presence of magnesium.

N. H.—Quite a creditable first attempt. The evidence for the presence of an acetate was insufficient. Note that ammonium magnesium phosphate is not soluble in ammonium chloride. The trace of calcium was probably from tap water.

Perlo.—Preliminary examination was too slender.

Pussyfoot (Stockwell).—In testing a neutral solution for acid radicals, both calcium chloride and ferric chloride should have given precipitates of the corresponding phosphates.

Meta.—Do not omit to give a summary of the constituents detected; without this no report is complete.

Neon (Leeds).—Your report does not give nearly enough details. The methods by which results are obtained must be fully stated—not merely the results themselves.

Ashes.—The effervescence noticed when the powder was heated with water was due to the interaction of the acid ammonium phosphate with the insoluble carbonates.

A. Z.—Your mode of separating the phosphoric-acid radical should have been described. It may have been faultless, but, if so, it was all the more desirable that it should have been stated in full. Read also the second sentence of the reply to "Dorema."

J. C. S.—Boiling an unknown powder with water and excess of sodium carbonate and filtering, besides furnishing a solution to be tested for acid radicals, generally yields a residue which, in occasional instances, may conveniently be used, with discrimination, in testing for metallic radicals, but the method is of very limited applicability. It is not good practice, however, to test for a carbonate in the filtrate which is known to contain excess of added sodium carbonate.

Man Friday.—The powder should have been examined by a special method applicable to phosphates in order to ensure correct results.

M. H. P.—Your report does not include any account of the examination of the filtrate from the zinc sulphide, which contained part of the magnesium.

Dizo.—You give elaborate evidence for an acetate and a bicarbonate, but, unfortunately, both were absent.

Gintario and Plus Barbe.—Your solution of ammonium molybdate requires attention, since it fails to indicate the presence of a phosphate.

Crucifer.—You do not appear to have tested for a phosphate, and the omission has led you into faulty procedure.

Amateur.—Attempts to confirm a nitrate by the two methods you employed were not successful. Read also the reply to "M. H. P."

Progess of the Tournament.

Competitors will be interested to know how the tournament progresses. The following ten students have attained over 300 marks in the four competitions to date:

Ferrum	366	Amateur	320
Bruggles	362	Mytosis	320
Gee-Gee	356	Prospector	320
Hirudo	351	T. E. P.	316
Nitrosyl	326	Secundus	310

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Wine-licence Applications.

At Ashbourne Licensing Sessions, on March 4, a wine off-licence was granted to Mr. J. M. Williams (Osbornes, Ltd., chemists), St. John Street.

At Tiverton Licensing Sessions, recently, wine off-licences were granted to Mr. W. H. Meyer, chemist and druggist (Meyer, manufacturing chemists), Bridge Street, and to Rossiter & Co., chemists, Bampton Street. Both licences were opposed by local institutions.

At Hastings Licensing Sessions, recently, Mr. H. M. Thompson, Ph.C., Grand Parade, St. Leonards, applied for a licence to enable him to sell medicated wines. It was urged that these wines were frequently ordered, and that Mr. Thompson wished to be placed on a level with chemists who possess licences. The chief constable, on being appealed to by the Bench, said that these particular wines were obtainable at ordinary wine-and-spirit shops. The application was refused.

At Pontypridd Licensing Sessions, on March 9, the application of three pharmacists for wine off-licences was opposed, the chief witness for the objectors being Dr. Ivor J. Davies, Cardiff, who contended that the whole of the medical opinion was against the use of medicated wines. The presiding magistrate, in announcing that the licences would not be granted, said that the Bench desired to point out their wish to discourage entirely the sale of medicated wines; but, in order that the present holders of licences might not suffer any hardship by the stocks which they might have in hand, the Bench wished to point out that the whole position would be reviewed by the licensing justices next year, when it was likely the licences would not be renewed in their present form.

Guardians' Affairs.

Mr. W. Worthington has resigned the position of dispenser to the West Derby Union, Liverpool.

Eton Board of Guardians has accepted the tender of Griffith & Walden, chemists, Slough, for drugs.

Mr. E. K. Fordyce, chemist and druggist, has been appointed dispenser at the City of Westminster Union Infirmary.

At a meeting of the Bolton (Lancs) Guardians on March 4, it was reported that a tradesman, after tendering for certain goods, found that he could not deliver at the price he had quoted. After a discussion, the Board decided that it was advisable to allow a tradesman an additional sum in cases in which such an addition could be justified; otherwise, those who tender would cover themselves, and the Guardians would gain nothing.

Sale of Food and Drugs Acts.

At Wimbledon, London, S.W., recently, A. H. Brill, provision merchant, was fined 20*l.*, including costs, for selling a self-raising flour containing six times the amount of calcium sulphate expected to be present. [The Local Government Board recommends that calcium acid phosphate used in baking-powder should contain not more than 10 per cent. of calcium sulphate.—Editor.]

At Bromsgrove Police Court, on March 2, Mr. William Corbett, chemist and druggist, High Street, was charged with having sold 2 oz. of sweet spirit of nitre deficient in ethyl nitrite to the extent of 21 per cent. Mr. T. Horton defended. Mr. C. C. Duncan, F.I.C., gave evidence as to the deficiency. The presiding magistrate said the Bench were agreed that the justice of the case would be met by the payment of 2*l.* 10*s.* costs. They were perfectly satisfied as to the *bona fides* of Mr. Corbett.

The Lancashire county analyst, Dr. W. C. Williams, F.I.C., states, in his recent annual report, that two samples of Epsom salts from the same source contained nearly 3 grains of arsenic to the pound—200 times as much as the limit prescribed by the British Pharmacopœia. A third sample contained 20 parts of arsenic, and a fourth 8 parts of lead per million. The arsenic in the salts is attributed to the use of arsenical sulphuric acid in their manufacture. Other articles found to be adulterated or defective were potassium-chlorate lozenges ($2\frac{3}{4}$ gr. of potassium chlorate in each lozenge), arrowroot (containing maize and potato starches), cayenne (6 per cent. of sand), mustard, malt vinegar, and ginger. The total number of samples of "drugs" examined was 64. Two samples of drinking-water, examined for lead only, were found to contain 0.7 gr. of lead per gallon in each case, "which is a very dangerous quantity." Dr. Williams also deals with the question of egg- and custard-powder. He states that generally an egg-powder is a coloured baking-powder, and a custard-powder a coloured and flavoured preparation of starches. A few brands of custard-powder now contain a small proportion of dried egg. Owing to the scarcity of eggs, there is a great sale for these preparations, and a tendency exists to exaggerate their qualities. For instance, a sample of egg-powder devoid of eggs was labelled "One packet equal to two or three eggs, and contains the essential properties of new-laid eggs."

Birmingham.

A Colemore Row pharmacy has an extensive display of manicure-sets and scissors.

Pharmacists should examine the new jury lists and the lists of electors. A word to the wise . . .

Cremation is becoming "more popular," according to Dr. Bostock Hill. At any rate, the local crematorium has shown a profit in its accounts for the past year—for the first time.

"Stimulate the retail trade, and the business will soon reach us," was the sentiment of the recent British Industries Fair at Birmingham, as expressed by leading exhibitors.

Students of pharmacy will be able to exercise their botanical knowledge around King's Heath. Mezereon—*biondella*, to give it its pretty Italian name—is in flower at the present time.

Dr. Horatio Wood, a well-known Balsall Heath practitioner, died recently at the age of seventy-nine. Dr. Wood was in practice for over fifty years, and was a *persona grata* to local pharmacists.

A local paper has published a list of articles for "the family medicine chest." But how many families now keep a medicine chest? Some of us can remember those of a bygone day, not a few of which approached the dimensions of a cupboard.

Mr. Marsh Hampton, B.Sc., the lecturer at the Birmingham Pharmaceutical Association's meeting on March 3, is the son of Mr. G. Hampton, chemist and druggist, Smethwick. Mr. Hampton, jun., is twenty-four years of age, and for the past two years has been chemist to Chance Brothers & Co., Ltd., Oldbury.

No wonder foreigners find English difficult! "Now then, you there! Come on and get off!" was the remark addressed recently by a Birmingham tram conductor to a would-be passenger of foreign mien. The pharmacist who overheard this choice bit of idiom did not, however, find it necessary to offer his services as interpreter.

Liverpool.

Tooth-brushes are, at the moment, a favourite form of window-display, flanked with popular dental powders and creams.

Several suburban pharmacists are buying their business premises or their houses, or both, more or less "at the pistol point."

The Liverpool Chemists' Association has sent out a circular to the members rallying them to the special meeting for a discussion on rising charges (non-transferable) and fixed prices.

The festivities with which Liverpool wholesale staffs are winding up the winter are characteristic of a large percentage of the city's population. It is a task to find a hall with a vacant night for a ball, a whist-drive, or a kindred gathering.

We are indebted to Mr. H. C. Meyrick, Ph.C.I., for an account of the circumstances of the late Mr. W. H.

Swain's death, supplementing, and in one detail correcting, the account in our issue of February 28 (p. 86). It appears that Mr. Swain was dressing prior to opening the shop at 149 Derby Road on the date mentioned when he was seized with a fainting fit, and passed away in the afternoon without having regained consciousness.

The current programme of the Lancashire and Cheshire Historic Society includes a lecture by Mr. Henry Peet, M.A., on "Notes on the Recently Recovered Plans of Old St. Nicholas's Church, Liverpool." The plans, two in number, which were evidently prepared shortly before the demolition of the old church in 1774, had remained, unknown to historians, behind a safe in St. Peter's Church. St. Peter's is on the eve of demolition, but Harrods have abandoned their intention to acquire the site for a store.

Sheffield.

Chloroform or ether was used in a recent case of robbery with violence at Darnall, the victim being gagged with cotton-wool.

Selfridge & Co., Ltd., who have purchased the business of Cole Brothers, are pushing their druggists'-sundries department.

Sir William Glyn-Jones and Mr. John Evans, F.I.C., Ph.C., have been elected honorary members of the Sheffield Pharmaceutical Students' Association.

The Sheffield Interviewing Board of the Ministry of Labour has expressed its appreciation of the Pharmaceutical Society's scheme for the supply of books to students.

The general trade of the city is good. Last month showed a sharp rise in Insurance work—though some pharmacists would question the right of Insurance work to be reckoned as general trade, or, indeed, as trade of any sort.

Mr. Stephen Furnival, Ph.C. (Eardley & Furnival), has been appointed an examiner in pharmacy and materia medica to the Pharmaceutical Society of Great Britain. Mr. Furnival was apprenticed to his uncle, Mr. J. F. Eardley, in 1900. He studied at the Bloomsbury Square School of Pharmacy, winning various prizes from 1904 to 1907, including a silver medal in advanced practical chemistry. He passed the Qualifying examination in 1906, and the Major in the following year. A brief career in business at Windsor on his own account was followed by his partnership at Sheffield with Mr. Eardley, whose daughter he married. Mrs. Furnival died last year. Mr. Furnival has been Vice-President, secretary, and an auditor of the Sheffield Pharmaceutical and Chemical Society.

Southampton.

Mr. H. Jewell, President of the Southampton Pharmacists' Association, has been unanimously elected to the Southampton chamber of commerce to represent the interests of local pharmacists. Mr. Jewell's successful defence against a complaint of profiteering is reported on p. 52.

A dinner was given at the South Western Hotel by the Southampton Liberal Club, recently, to the members and their sons on their return from the war. The toast of "Our Guests" was responded to by the chairman of the Club, General Sir Ivor Philips, D.S.O., and Mr. F. B. Wride, chemist and druggist. No more congenial gathering has ever been held in the old borough.

The friends of Mr. F. B. Heathcote Wride, son of Mr. F. B. Wride, secretary of the Southampton Pharmacists' Association, will be pleased to know that he has returned from India and is managing the Winchester branch of F. B. Wride & Co. It is not always that sons follow their father's profession, but Mr. F. B. H. Wride is the third of a generation of pharmacists. The parent business of F. B. Wride & Co. was established in Southampton in 1843. The Winchester branch is an old-established pharmacy, and was owned by Mr. S. G. Bartlett (late President of the Hants Pharmacists' Association) for thirty years. Mr. Bartlett lost his only son in the war; he has now retired, and is living at Paignton.

Miscellaneous.

Fumes in a Street.—A barrel of acetic acid fell and burst open in Church Street, Blackburn, recently. The fumes caused considerable discomfort, and the fire brigade was requisitioned to wash the acid away.

Purchase of a Factory.—The recent purchase of a factory in Newcastle-on-Tyne by Angus Watson & Co., Ltd., will, it is understood, be of interest to the chemical trade when announcement in a complete form is made. Lord Leverhulme is now intimately associated with the company.

Osler Memorial Scheme.—The collection of funds for an "Osler institute of pathology and preventive medicine" was inaugurated by the appointment of an executive committee for this purpose at a meeting held at Oxford on March 6. It was intimated that a provisional committee has been formed for the same purpose in the United States, and that a similar one will probably be formed in Canada.

In the Courts.—At Lincoln, on March 1, a lad aged eleven was placed on probation for six months for having stolen a box of pine lozenges, value 9*d.*, from the shop of Mr. Thomas W. Srigley, chemist and druggist, 48 Newland Street West.—At Church Police Court, on March 4, a boy was committed to an industrial school for breaking into the shop of Mr. J. S. Snell, chemist and druggist, 45 Blackburn Road.—At Newcastle-on-Tyne Assizes, recently, H. J. May (36), described as a dispenser, pleaded guilty to having used an instrument with intent to procure abortion; he was sentenced to five years' penal servitude.

Proposed Memorial Chair of Radiology.—A letter has been sent to the Press suggesting the founding, at a university, of a chair of radiology in memory of the late Sir James Mackenzie Davidson. The letter, which is signed by Mr. Bonar Law, Dr. Robert Knox, and several other leading publicists, points out that the name of Mackenzie Davidson is specially associated with the development of radiographic technique, which development has resulted in extending the scope of radiology far beyond its original uses. Beginning as an ophthalmologist, he soon realised the possibilities of certain results that he had noted, and a series of brilliant researches followed. "The future of radiology will therefore lie," concludes the letter, "not only in the fight against disease and suffering, but also in the increase of commercial and industrial efficiency."

Pricing Prescriptions.

The March issue of the London Chemists' Retail Price List contains a pricing system for dispensing which effects a great simplification of the process. The following is the explanation given in the list:

The Simplified Costing Basis.

All drugs in the list are based on a costing system covering overhead charges, and showing the rate of profit on a uniform basis.

The Method of Pricing Prescriptions.

Charge the list price for each ingredient, which covers all costs and yields the required profit, therefore the only addition to be made will be the professional or compounding fee.

Compounding Fees.

As a guide in providing uniformity for professional services, the following fees are for average time, and are based upon the official tests for dispensing:

Simple mixtures, gargles, lotions, etc.	9*d.*
Emulsions or suspensions	1*s.*
Pills and powders ... 6—9*d.*; 12—1*s.*; 24—1*s.*3*d.*	
Suppositories ... ...6—1*s.*; 12—1*s.*	6*d.*
Blisters	9*d.*
Plasters ... ...1*s.*	6*d.*
Cachets, etc. ... ...6—9*d.*; 12—1*s.*	3*d.*
Ointments, etc.	9*d.*

The system used in conjunction with the pricing chart published in the *C. & D.*, February 28, p. 92, and applied to the prices given in the London List, very much simplifies the method of pricing medicines on a costing basis.

Irish News.

Brevities.

Mr. Edward MacManus, Ph.C., has purchased the Medical Hall, Lisnaskea, co. Fermanagh, and will conduct it as a pharmacy. Mr. MacManus has lately been in business in the South of Ireland.

Mr. J. E. Cooke, Ph.C., The Medical Hall, Gorey, was one of the members of a Conciliation Board which endeavoured to bring about a settlement between the Gorey Employers' Federation and town workers who are concerned in a lock-out.

At the Newtownards Board of Guardians meeting on March 6 the clerk said that Dr. Jamieson had drawn his attention to the danger of young children being sent to the dispensary for medicines. The curiosity of children might lead them to taste the medicament, which might result in serious consequences. He thought the Guardians should mention that messengers must not be under fourteen years of age. It was decided to warn the public accordingly.

The Local Government Board has intimated to the Sligo Guardians that they are in a position to deal with the account received from the Sligo Drug Co. in respect of surgical dressings, purchased from the firm in consequence of the failure of their own contractors, J. Clarke & Co. (Successors), Ltd., to supply them. They point out that the charges made by the Sligo Co. are practically double those set out in the prescribed list. The Board has decided to pay the account.

Irish Chemical Trade.

The report on the trade in imports and exports during the year 1918 has just been issued by the Department of Agriculture, and gives the following information regarding chemicals, fertilisers, etc. :

From 1916 to 1918 imports of copper sulphate increased from 3,128 tons to 5,682 tons, saltpetre from 8,192 cwt. to 53,230 cwt., bicarbonate of soda from 84,213 cwt. to 119,362 cwt., basic slag from 29,767 tons to 58,493 tons, sulphate of ammonia from 5,098 tons to 25,224 tons, phosphate rock from 99,492 tons to 106,578 tons. Imports of soda nitrate fell from 12,665 tons in 1916 to 8,284 tons in 1918. Exports of alumina amounted to 354,750 cwt. in 1916, 389,747 cwt. in 1917, and 342,930 cwt. in 1918. Exports of fertilisers fell from 19,374 tons in 1916 to 17,178 tons in 1917, and to 14,520 tons in 1918.

Scottish News.

Brevities.

Elgin and District Chemists' Assistants held a successful dance recently.

Mr. James Alexander Gray, Ph.C., has acquired the business of Mr. David Dunnet, chemist and druggist, 82 Main Street, Bainsford, Falkirk.

Mr. David Dunnet, chemist and druggist, Bainsford, Falkirk, has acquired the business of Mr. D. A. Mortimer, chemist and druggist, Broughty Ferry.

A roguish correspondent, referring to "Xrayser II.'s" defence of dispensing "over the border," suggests that the standard (of dispensing) in England has risen immensely since so many Scots went south!

A serious outbreak of fire occurred on March 3 in Beverley's Buildings, Mid Street, Keith, part of which is occupied by Mr. W. Rioch, chemist and druggist. Two hours after the fire broke out the buildings were practically gutted.

A student in receipt of a grant who fails in his examination is not left on his own resources, writes Mr. J. Irvine, Scottish secretary of the A.S.P.D.C.W. The committee may grant an additional three-months' course provided that the school authorities report favourably on the student's ability and chances.

"May I remind progressive candidates," writes a correspondent, "not to forget to acquaint Scottish members with their views in the approaching election? It is a known fact that many progressive candidates have lost much Scottish support owing to the fact that they have been unknown to Scotsmen; but we depend on the *C. & D.* to educate us on this point."

Greenock chemists, assistants, and friends had an enjoyable supper and dance on March 3, the President (ex-Bailie J. A. Russell) in the chair. After supper Mr. John Sharp proposed the toast "The Drug Trade," which was replied to by Mr. Duncan (Boots, Ltd.) Mr. C. A. Buick (MacNaughton & Buick, Port Glasgow) proposed "The Ladies," which was replied to by Mr. Surgeoner. Mr. T. L. Sinclair proposed "The Scottish Federation, Greenock Branch," and the President replied. Mrs. Park, Mrs. Cairney, and Mr. Sharp contributed songs and other items. Mr. A. N. White (Harkness, Beaumont & Co., Edinburgh) sent apologies for absence. The M.C. was Mr. N. McNeill, and the committee consisted of Messrs. Sinclair, McNeill, Foulds, and A. S. Russell.

Edinburgh.

A lady told a chemist the other day that a friend, unable to obtain an empty quart bottle in Birmingham, had asked her to try to obtain one in Edinburgh.

The Edinburgh Chemists' Golf Club played their opening match at Duddingston on February 25. The result was a win for the secretary. The Gibson Medal competition was played at Murrayfield on March 3. A fair number of members took part, with the following result: (1) Mr. J. Noble; (2) Mr. A. F. Dawson; and (3) Mr. J. Gibb.

Glasgow.

The Glasgow Pharmacy football team is now fifth in the Half-holiday League.

As the result of accidentally drinking Jeyes' Fluid, a workman named Souter has died in the Western Infirmary.

Mr. T. Hyslop, chemist, New City Road, has forwarded 1*l*., collected in his shop, to "the 'Glasgow News' Broken Men Fund."

A workman was severely burned on the premises of the British Oxygen Co., Ltd., Polmadie, on March 4, and subsequently died at the Victoria Infirmary.

Mr. W. B. Rodger, St. George's Mansions, Charing Cross, has been appointed sole Scottish agent for the essential oils of Holland's Distillery, Ltd., London, S.E., and for Hertz & Co.'s Florozon inhalers.

The British Industries Fair at the Kelvin Hall has been a great asset to the city. Unfortunately it has been impossible to accommodate the number of exhibitors who wanted to take space in Kelvin Hall, and for future exhibitions a larger building is essential.

Mr. George W. Crawford, chemist and druggist, managing partner, Medical Hall, Singapore, who has been ill and under surgical treatment in Java and Singapore, sailed for Scotland per s.s. *Pyrrhus* on March 9. Letters for him may be forwarded to 4 Hamilton Street, Partick, Glasgow.

Hookworm Remedies in Jamaica.—In the Colonial Office Report for 1917-18 it is stated that 4,361 cases were treated at the various hospitals in the following manner: Thymol, 3,294; oil of chenopodium, 1,046; quassia, 15; and naphthol B., 6. East Indians also were treated with thymol on the estates.

Mr. Paul Buchler (Herm. Buchler), Dunster House, Mincing Lane, London, E.C. 3, intimates that after an active business life, extending over more than forty years, he has decided to retire from the City. His son, Mr. Eric C. V. Buchler, has entered into partnership with Mr. Robert Brookman, amalgamating the firm of Herm. Buchler with that of Robert Brookman & Co., under the style of Buchler & Brookman, at the above address.

The Profiteering Act.

Notes.

Committees Resign.

The Wimbledon Profiteering Committee has resigned, and has expressed the opinion that its work has been of no value in checking profiteering.

The Blackburn Profiteering Committee, of which Mr. W. H. Grimshaw, chemist and druggist, was a member, tendered its resignation to the Blackburn town council on March 4. One member declared that the Profiteering Act cloaked the guilt of big profiteers, and set local Committees to waste their time by pursuing small shopkeepers on pettifogging complaints.

The Southampton Profiteering Committee has decided that it ought to be disbanded on the ground of its being insufficiently endowed with powers to remove the principal causes producing profiteering. Among the remarks made in support of the resolution were: "It is an injustice to the public to continue in this position any longer"; "we are not getting at the source of profiteering, but if we could we should have things a great deal cheaper than they are"; "when three ladies and ten gentlemen have to judge whether there is profiteering on brass buttons or babies' rattles, I think it is about time we shut up shop."

Comments on a Prosecution.

The Bermondsey Profiteering Committee, at a recent meeting, received a report from its solicitor with regard to the charge brought against Boots Cash Chemists (Southern), Ltd., of profiteering on the sale of a bottle of Rogers' Nursery Hair Lotion, which charge was dismissed by the magistrate at Tower Bridge Police Court, the Committee having to pay 20*l.* costs (*C. & D.*, February 28, p. 75). The report pointed out that, in view of the decision in this case, as well as in another, it would be with very great difficulty that a conviction for profiteering could be obtained under the Profiteering Act as it was at present framed. The Committee in these cases was faced with the further difficulty of getting expert evidence as to prices, while the defendants could call any amount of expert evidence. The Committee had also to face the instructions issued by the Board of Trade dealing with replacement values.

Central Committee Case.

The Complaints Tribunal of the Central Profiteering Committee concluded, on March 4, the hearing of the case in which Sutcliffe Brothers, Queen Street, E.C., were the respondents in a complaint of offering Sunlight soap at 53*s.* a case (*C. & D.*, February 21, p. 50). Additional evidence was given showing that the soap was offered to Messrs. Sutcliffe by Mr. G. Peereboom, a Belgian, who was offered it by Mr. H. Bloom. The chairman (Mr. W. Marshall Freeman), in giving the decision of the Tribunal, said:

We consider that the business which is being carried on by the respondents should properly be described as a brokerage business, and upon the evidence before us we are of opinion that they were only justly entitled to seek the normal profits of such a business of brokerage. They were offered 1,000 cases of this Sunlight soap, and they put on to the price at which it was offered to them an intended profit of 1*s.* 6*d.* per case. That would be approximately 3 per cent., or three times as much as the ordinary rate of brokerage generally obtaining. Therefore, in our opinion, that constitutes an attempt at profiteering. We think that had they put on a profit of 6*d.* or 9*d.* per case, making, roughly, 1½ per cent., that would have been abundant remuneration for them for the very trifling amount of trouble and responsibility and risk which they took in this transaction. We are impressed by the fact that these respondents are young men who have been serving their country, and who have come back and recently started a new business; and we do not consider that there will be any necessity whatever for any further proceedings to be taken against them. We hope the fact of their having been brought here to answer this case will suffice to emphasise sufficiently our view of the matter without any further proceedings. So far as the respondents are concerned, therefore, we find that the case is proved against them, that they have been guilty of profiteering within the meaning of the Act; but no actual sale was made, and therefore there is no amount which we can order to be refunded, and, for the reasons I have given, we do not propose to recommend any further proceedings against them. Now I come to deal, and I must deal, with the other matters arising in this case, and in what I am going to say I should like it to be understood that I am expressing the unanimous opinion of the Tribunal. These proceedings have disclosed a state of affairs that is, altogether, not only regrettable, but undesirable. We find that grocers who are without stock of Sunlight soap at a certain time are, apparently, only able to obtain it from persons who have it on offer at 10*s.* per case more than the manufacturers offer it at when they have supplies to send. We have desired to discover how it comes about that the British public are being exploited, as they have been exploited, in this fashion, and we find that a gentleman named Bloom, who has appeared before us to-day, who was at one time a retail grocer, and who now has developed in other directions, who is, as he said to me in reply to a question, a provision merchant and dealer and wholesale grocer—entirely wholesale—occupies a small office in a single room in a yard off the Whitechapel Road, and that he, on his own showing, is the employer, or one of the employers, of a number of peripatetic persons calling themselves brokers, who go about among grocers and other people who happen to have Sunlight soap, and who, instead of supplying that Sunlight soap in the ordinary way of retail trade to the British householder, are only too willing, apparently, to hand over the whole of their stocks for a quick profit to Mr. Bloom and other gentlemen in his line of business. We heard from Mr. Bloom that he had a warehouse. One of my colleagues, who is well versed in that particular branch of trade, questioned Mr. Bloom about his warehouse, and then it was revealed to us that this is what might be called an accommodation warehouse, where Mr. Bloom can deposit anything that he has not the convenience to put in his small office off the Whitechapel Road. Therefore it appears to us that Mr. Bloom's business premises and accommodation generally are not quite so extensive as he would appear to have desired us to believe. Mr. Bloom, in process of making this collection, succeeded in getting, I think, about 12,000 cases of this Sunlight soap, and he gave us to understand that it was obtained chiefly from grocers who were willing to sell. I have now had an opportunity of looking through the list of people from whom he has obtained receipts. I find a person named Shapiro, who apparently carries on a domestic bazaar at High Street, Walthamstow, seems to have been one of the most fruitful sources of supply to Mr. Bloom of this Sunlight soap. I find also china and glassware merchants, and all sorts of people in all sorts of different trades, in a position to supply Mr. Bloom with Sunlight soap. Some of my colleagues have been looking through his books, and they tell me that his turnover must be something very much more than 150,000*l.* a year, and apparently it is all in this class of business. When Mr. Bloom was first approached by the Department he began by assuming complete innocence of any transactions with Mr. Peereboom, and, as the documents show, it was only by virtue of determination and persistence that the Department were able to extract from Mr. Bloom even the information that we have now before us. That information is wholly incomplete. The Tribunal regard Mr. Bloom's conduct from first to last as wholly reprehensible, and we intend to express our opinion of Mr. Bloom and of his doings by bringing the whole of the transactions, so far as we have succeeded in getting them, before the notice of the Board of Trade. We think Mr. Peereboom has put before us fairly and honestly all the information he had. We think Mr. Peereboom should be a little careful in regard to these transactions. We notice that he shares an office with another firm. We think the description on his notepaper, "18 and 19 Great St. Helens, London," is a matter of questionable expediency, because we understand that the representative of the Department failed even to discover Mr. Peereboom's name on the door, though Mr. Peereboom's representative to-day says it is on the door. We view with a good deal of concern the long string of non-British names which has appeared before us to-day in regard to the collection and distribution of these various commodities. There is one other thing I wish to say. The Tribunal have had the advantage of having before them a representative of Messrs. Lever Brothers, the great firm who manufacture and sell this soap. We have heard with regret, I might almost say with astonishment, that it has been within the knowledge of Messrs. Lever Brothers that Mr. Bloom and other persons have been collecting their soap from retailers and other persons, who have obtained it from them, for the purpose of adding additional profits to it and of sending it abroad, to the very great detriment

of the British public, who surely are the first people to be taken into consideration in regard to supplies of that kind. We can only come to the conclusion, having regard to the admissions made by Messrs. Lever Brothers' London, manager, that the one thing uppermost in their minds has been to conserve their own interests, without regard to the interests of the great British public who have been, or should be, their best customers. We think that is altogether a regrettable view to take of the case, and we express the hope that Messrs. Lever Brothers will look very seriously into this question, although we are afraid from what we have heard that it will be almost like locking the stable door after the steed has been stolen. We think that, quite apart from the legal merits of the case, with which I dealt at the outset, these proceedings ought to be an object-lesson to the community at large as to how it comes about that the prices of commodities are raised, because here it is quite clear that Messrs. Lever Brothers have been putting up the price of their soap largely as a result of urgent demands from would-be purchasers who might not have been rapping at their doors making these urgent demands if the sort of holding-up and profiteering from one broker to another which has been here disclosed had been prevented, as we think it might have been prevented more or less effectively, by action on the part of Messrs. Lever Brothers themselves.

Complaints.

Bermondsey.—At a recent sitting of the Profiteering Committee a complant was heard against Mr. Robert Blackie, chemist and druggist, for having charged at a branch in Jamaica Road, S.E., 1*s.* for a pocket-comb on the case of which 9*d.* was marked. The complainant, having related the circumstances of the purchase, said he took the pocket-comb back, and saw a lady assistant. He asked the girl what the price of the comb was and was told 10*d.* or 10½*d.* The respondent's manager stated in evidence that the comb was taken on approval from the start. A Member: Are you in the habit of sending goods out on approbation?—Many children come into the shop and afterwards bring the articles back to be changed. We always hold the capital—the money first brought—until the transaction is finished. If there is any change to come they get it, and if there is any overcharge they pay it. In this case he had the opportunity of coming back, when he would have got his change. You would not let anyone have an article on approbation that was dearer than 1*s.*?—I don't say that I should; but here, I maintain, the sale was never completed. I do not know whether this is the comb he wants. If it is, then he has 3*d.* to come. The transaction is still open. The Committee ordered 3*d.* to be refunded, and directed a prosecution. It was intimated that there would be an appeal.

Croydon.—At the sitting of the Profiteering Committee on March 4, a Mrs. Grimwood brought a complaint against Mr. S. W. Vincent, chemist and druggist, Addiscombe, for having charged 2*s.* 6*d.* for a crêpe bandage. The complainant stated that on looking at the bandage at home she found that it was marked 1*s.* 7½*d.*, and was re-marked 2*s.* 6*d.* The explanation by the respondent was that the bandage was marked 1*s.* 7½*d.* in error. The invoice showed that the wholesale price last October was 1*s.* 9½*d.* and the sale was made in December. The charge was not considered unreasonable by the Committee, and the complaint was dismissed.

Ealing.—A local chemist has been summoned to appear before the Profiteering Committee to answer a complaint for selling, it is alleged, a box of Dun's castor-oil capsules at 1*s.* 6*d.*

East Ham.—At the sitting of the Profiteering Committee on March 4, the hearing of the complaint against Parke's Drug Stores, Ltd., regarding a sale of 3 oz. of sweet spirit of nitre (*C. & D.*, March 6, p. 71), was concluded. Mr. G. Washington Fox, solicitor, appeared for the respondents. Assistant-Inspector Tooby, giving evidence, confirmed a statement made at the previous hearing as to the price paid being 3*s.* The complainant, Inspector Banks, gave evidence that the complaint had no relation to the purchase under the Sale of Food and Drugs Acts. He hoped the Committee would consider the position of the inspector in the case. He put in a copy of the "Standard" Retail Price List, which he had borrowed from a local chemist, for January 1920. The list, the witness alleged, was compiled by S. Maw, Son & Sons, Ltd., Aldersgate Street, London. The cost price quoted in it for spirit of nitre was 6*s.* 6*d.* per lb., and the retail price 6½*d.* per oz. Mr. Fox, for the respondents, said he would produce evidence to prove that 2*s.* was the correct price and was the amount paid, entered on the till-roll, and accounted for. Mr. Francis Charles Kelly, chemist and druggist, stated in evidence that he charged 2*s.* for the 3 oz. of spirit of nitre in question. He did not put the money into the till until the inspector had left the shop; that was his usual custom when a 2*s.* piece was tendered in payment, in order to prevent customers disputing the coin. He duly entered the sale on the till-roll and also added "Inspector, Food and Drugs." Mr. Alfred Higgs, J.P., treasurer of the Thames Valley Pharmacists' Association, called as a witness for the respondents, said that he must first correct the inspector in saying that the price-list produced was compiled by Maws; their name on the outside front cover referred to an advertisement. The list did state that the spirit of nitre cost 6*s.* 6*d.* per lb. and retailed at 6½*d.* per oz., but, on looking up the prices in the list issued in January 1919, the cost was stated as 6*s.* 2*d.* per lb., retailing at 7*d.* per oz. Having quoted Section 1 (2) of the Profiteering Act, Mr. Higgs produced the "Minimum Retail Price List" and also the Scottish Chemists' Retail Price List, in both of which the price quoted for spirit of nitre was 8*d.* per oz. A Member: How is it that a firm of chemists charge 6*d.* per oz. for spirit of nitre?—That firm did not, apparently, rely on drug sales entirely. If a chemist sold spirit of nitre at 6*d.* per oz. which cost practically 5*d.*, he could not carry on business with profit to himself. It was shown in a Government departmental report that the overhead charges of a chemist's business were 25 per cent. of the turnover. The witness produced an invoice of a purchase of spirit of nitre by himself in 1914, which showed a profit of 46 per cent. on the retail price, whereas the price of 8*d.* per oz. only showed a profit of 39 per cent. Mr. E. Salthouse, chemist and druggist, works manager to Parke's Drug Stores, Ltd., gave confirmatory evidence as to the character of Mr. Kelly and the price he was instructed to charge. After a hearing lasting about two hours the Committee decided that the evidence submitted was so conflicting that they were unanimous in dismissing the complaint.

Northwood, Middlesex.—At the sitting of the Profiteering Committee on March 9, Mr. C. J. Ellis, chemist and druggist, was the respondent in a complaint regarding a charge of 1*s.* 2½*d.* made for a 1-oz. bottle of friars' balsam. Mr. Fox-Andrews (Neve, Beck & Kirby) appeared for the respondent, instructed by the Chemists' Defence Association, Ltd. A refund of 2*d.* was ordered.

Southampton.—At a recent sitting of the Profiteering Committee, Mr. H. Jewell, chemist and druggist, 57 Above Bar, was the respondent in a complaint of having charged 1*s.* 3*d.* for 100 saccharin tablets. Mr. C. Emanuel, solicitor, instructed by the Chemists' Defence Association, Ltd., appeared for Mr. Jewell, and Mr. F. B. Wride was present on behalf of the Southampton Pharmacists' Association. The evidence for the respondent showed that the cost price of the tablets was 11*s.* 6*d.* per doz. 100's, yielding a profit of 23 per cent. on the selling price; the pre-war figures were 6*s.* 9*d.* (less 7½ per cent.) per doz. cost price, and selling price 1*s.* The complaint was dismissed. On the same day, as reported in a previous column (see "Notes"), the Committee passed a resolution in favour of disbandment.

Wallington.—At the sitting of the Profiteering Committee on March 1, a Mr. Dyble complained that Mr. James Noble, chemist and druggist, Woodcote Road, charged him 7½*d.* for a bottle of vaseline pomade, when he obtained a similar article for 4*d.* at a shop in Croydon, 4½*d.* at another, and 5½*d.* at a third. He also complained that when he asked for a bill he was given a plain piece of paper with the price written on. On his demanding a receipt, respondent asked for the return of the purchase, and, on it being handed back, returned 7½*d.*, with the remark, "Such customers as you I can do without." The complainant

produced the 4*d.* sample, and the chairman compared it with the 7½*d.* bottle, and said they seemed to be practically the same. Mr. Noble said that, with the exception that his bottle was sold in a box, he did not suppose there was any difference between them. Those purchased in Croydon were sold to the retailer in gross boxes—he never had them—and the bottles done up in cardboard boxes were only sold in small quantities. It was an article for which he had very little call, and, of the half-dozen bottles purchased last November, he still had one or two left. The price was 5*s.* per dozen, but, with the wholesalers' discount, the cost price was 4½*d.*, and his selling price was 6*d.* In the early part of January the price rose to 5*s.* 11*d.* per dozen., *plus* carriage, so that the article, which now costs 6*d.*, was being sold at 7½*d.* He produced a price-list in confirmation. On returns, his profit would be 20 per cent. It would be appreciated that the cost did not end with the mere purchase of stuff. Asked by the chairman how it was that a receipt was not given, as asked for, the respondent replied that the piece of plain paper was the nearest to hand. He could not give a receipt for every article sold. One might just as well expect the newsagent to give a receipt for the morning paper. The Committee came to the unanimous conclusion that no profiteering had been disclosed, and the complaint was dismissed. Mr. Noble, while thanking the Committee for the consideration accorded the case, asked if such a complaint could not have been dealt with in some other way. Such proceedings were very hard on a tradesman, and in two years' time it would be thrown at him that he had to appear before the Profiteering Committee.

Deeds of Arrangement.

Briggs, Thomas, 9 Hyde Park, Leeds, chemist and druggist. Trustee: P. S. Booth, 2 Bixteth Street, Liverpool, accountant. Dated, February 25; filed, March 1. Liabilities, 1,127*l.*; estimated net assets, 1,250*l.* Among the creditors are: Allen & Hanburys, Ltd., 38*l.*; W. Browning & Co., Ltd., 34*l.*; The British Drug Houses, Ltd., 34*l.*; E. Cook & Co., Ltd., 22*l.*; F. S. Cleaver & Sons, Ltd., 41*l.*; Durands, Ltd., 24*l.*; J. Gosnell & Co., Ltd., 20*l.*; Hooper & Co., 11*l.*; London Sponge and Chamois Co., 27*l.*; Lorimer-Marshall, Ltd., 34*l.*; S. Maw, Son & Sons, Ltd., 14*l.*; F. Newbery & Sons, Ltd., 16*l.*; Oppenheimer, Son & Co., Ltd., 23*l.*; Parke, Davis & Co., 62*l.*; H. C. Quelch & Co., 10*l.*; Titterton & Howard, 25*l.*; Yardley & Co., Ltd., 40*l.*; Easelib Remedies Co., 20*l.*; Vinolia Co., Ltd., 13*l.*; Barnett's Perfumery, Ltd., 32*l.*; Reynolds & Branson, Ltd., 10*l.*; Goodall, Backhouse & Co., 24*l.*; T. Swales, 24*l.*; T. Waide & Sons, 13*l.*; Ayrton, Saunders & Co., Ltd., 20*l.*; C. Midgley, Ltd., 21*l.*; W. B. Cartwright, Ltd., 19*l.*; Erasmic Co., Ltd., 22*l.*

Ascott, George, trading as the National Drug Stores, 13 Prince of Wales Road, Kentish Town, London, N.W., drug-store proprietor. Trustee, P. S. Booth, 31 Kimberley House, Holborn Viaduct, London, E.C., accountant. Dated, March 4; filed, March 8. Liabilities unsecured, 1,591*l.*; estimated net assets, 807*l.* Among the creditors are the following: Ashton & Parsons, Ltd., 10*l.*; Ayrton, Saunders & Co., Ltd., 58*l.*; Ayrton Graham, Ltd., 9*l.*; Armour & Co., Ltd., 11*l.*; Bourne, Johnson & Co., 6*l.*; Burge, Warren & Ridgley, Ltd., 32*l.*; Bovril, Ltd., 19*l.*; Arthur Berton, Ltd., 23*l.*; Robert Bailey & Sons, Ltd., 34*l.*; F. Chiesman & Co., 35*l.*; F. S. Cleaver & Sons, Ltd., 23*l.*; W. B. Cartwright, Ltd., 8*l.*; Thomas Christy & Co., 14*l.*; Joseph Crosfield & Sons, Ltd., 20*l.*; A. & S. Carreras, 24*l.*; Duncan Flockhart & Co., 15*l.*; Robert Ferber, Ltd., 9*l.*; L. Frankenberg, 7*l.*; Ford, Cook & Co., Ltd., 20*l.*; H. N. Gilbey, 13*l.*; John Gosnell & Co., Ltd., 14*l.*; Horlick's Malted Milk Co., 11*l.*; Howards & Sons, Ltd., 10*l.*; F. W. Hampshire & Co., Ltd., 7*l.*; Idris & Co., Ltd., 7*l.*; London Rubber Co., 9*l.*; Lysol, Ltd., 15*l.*; J. H. Neave & Co., 7*l.*; F. Newbery & Sons, Ltd., 20*l.*; Omega, Ltd., 6*l.*; Oxo, Ltd., 5*l.*; Oatine Co., 19*l.*; C. H. Parsons & Brother, Ltd., 6*l.*; A. & F. Pears, Ltd, 43*l.*; Parke, Davis & Co., 23*l.*; Perfumerie Neville, 8*l.*; Potter & Clarke, Ltd., 74*l.*; Perry & Hope, Ltd., 19*l.*; H. C. Quelch & Co., 23*l.*; Regent Toilet Co., Ltd., 5*l.*; Reliance Rubber Co., Ltd., 26*l.*; Raymet & Co., Ltd., 14*l.*; Spurway & Co., Ltd., 29*l.*; Saltrates, Ltd., 11*l.*; Sargol Co., 14*l.*; F. Schutze & Co., Ltd., 21*l.*; Thermogene Co., Ltd., 21*l.*; Veno Drug Co., Ltd., 15*l.*; West Surrey Central Dairy Co., Ltd., 8*l.*; A. Wander, Ltd., 8*l.*; Weston Tablet Co., Ltd., 8*l.*; Wright, Layman & Umney, Ltd., 38*l.*; White Band Manufacturing Co., Ltd., 12*l.*; Yardley & Co., Ltd., 50*l.*; Zenobia, Ltd., 33*l.*

Coming Events.

Friday, March 12.

Amalgamated Society of Pharmacists, Drug and Chemical Workers (Public Pharmacists' Section), Progressive Pharmacy Club, Arundel Hotel, Arundel Street, London, W.C., at 7.45 P.M. All Public Pharmacists invited.

Tuesday, March 16.

Pharmaceutical Society's School of Pharmacy, Midland Hotel, St. Pancras, London, N.W., at 7 P.M. Annual dinner. Tickets (10*s.* 6*d.* each) from Mr. Harry Martin, 22 Graham Street, City Road, London, N.

Wednesday, March 17.

Manchester Pharmaceutical Association, 65 Market Street, at 3 P.M. Mr. P. F. Rowsell on "The Ministry of Health and Pharmacy." At 8.30 P.M. a Smoking Concert will be held in aid of the Benevolent Fund.

Pharmaceutical Society of Great Britain (North British Branch), 36 York Place, Edinburgh, at 8 P.M. Papers on "An Incompatible Lotion: Salicylic Acid and Zinc Oxide," by Mr. G. Shiach Kitchin; "The Action of Ether on Metallic Mercury," and "A Supplementary Note on Opium Assay," by Mr. D. B. Dott, F.R.S.E.; "Note on Protoiodide of Mercury," by Mr. J. Rutherford Hill. A sample of chloroform from coke-oven gas, from Sir John Cowan, D.L., will be shown, with note by Mr. A. J. Dey.

Thursday, March 18.

Chemical Society, Burlington House, Piccadilly, London, W. 1, at 8 P.M. The following papers will be read: "The Viscosity of Nitrocellulose in Mixtures of Acetone and Water," by Messrs. I. Masson and R. McCall; "The Introduction of the Chloromethyl Group into the Aromatic Nucleus," by Messrs. H. Stephen, W. F. Short, and G. Gladding; "The Influence of the Solvent on the Velocity of Reaction between Certain Alkyl Iodides and Sodium β-napthoxide," by Mr. H. E. Cox; "The Use of 1:2 Dichlorvinylethyl Ether for the Production of Chloracetates and Acid Chlorides," by Messrs. H. Crompton and P. L. Vanderstichele.

Glasgow and West of Scotland Chemists' Association, 165 Hill Street, Charing Cross. Mr. D. G. Mackenzie on "The Pharmacist as Photographer."

Pharmacists' Services Club, Restaurant Frascati, Oxford Street, London, W., at 7 P.M. First annual dinner. Tickets (10*s.* 6*d.* each) from Mr. F. W. March, 3 Heslop Road, Balham, London, S.W. 12., not later than March 15. Uniform, morning or evening dress. Ladies invited.

London Chemists' Golfing Society.—The annual dinner will be held in the Alexandra Hall, Frascati's Restaurant, London, W., on March 24, at 6.30 P.M. Tickets (12*s.* 6*d.* each) from Mr. G. F. Deeth, 40 Cleveland Park Avenue, Walthamstow, E. 17.

Quinine in Jamaica.—The sale of quinine at a cheap rate through the post offices was continued in Jamaica throughout the year. In spite of the very large increase in first cost, the sale price was not increased.

M. Calixte Crinon, who in 1903 was presented by the General Association of French Pharmacists, the Director of the Paris School of Pharmacy, and most of the well-known members of the trade with a bronze as a testimony of their appreciation, has recently been nominated Chevalier of the Legion of Honour.

The Decline in the German Spirit Industry.—At the general meeting of the Association of German Spirit Manufacturers, the secretary reported upon the economic position, stating that conditions were very bad. Instead of a production of 3,500,000 hectolitres, which was the annual output prior to the war, only 1,300,000 hl. was produced in 1918-19, which did not even cover the requirements for lighting, heating, and power. In the current year (1919-20) supplies were scarcer still, and only one-fifth of the small quantity produced in last year could be reckoned upon: of 6,000 potato distilleries only about 1,300 were working. This serious position had been brought about by the lack of coal, shorter working hours, and inadequate prices.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

Jackson's Invicta Co., Ltd. (P.C.).—Capital, 10,000*l*. Objects: To carry on the business of manufacturers of and dealers in "Jackson's Consumption Cure" carried on by C. Jackson at 5 Lambton Road, Dover.

S. W. Crossley & Co., Ltd. (P.C.)—Capital, 500*l*. Objects: To carry on the business of manufacturing chemists and druggists, drysalters, oil refiners, soap boilers, etc. R.O.: 45 Dock Street, Newport, Mon.

J. Murrow, Ltd. (P.C.).—Capital, 3,000*l*. Objects: To carry on the business of chemists, druggists, opticians, etc. The first directors are: J. H. G. Murrow and A. R. P. Sherry. R.O.: 2 The Pavement, Ladywell, London, S.E. 13.

Amalgamated Glass Bottle Works, Ltd.—Capital, 200,000*l*. Objects: To take over the businesses of E. Youlden, Ltd., glass-bottle makers, and the Nuela Glass Works, Ltd. Solicitors: Pakeman, Son & Read, 11 Ironmonger Lane, London, E.C.

Langham Brothers, Ltd. (P.C.).—Capital, 12,500*l*. Objects: To take over from C. A. Langham the formula of and the sole right to manufacture and sell a disinfectant preparation known as "Sanozon." Solicitor: B. W. Arnold, 35 King Street, Covent Garden, London, W.C.

Vitallo, Ltd. (P.C.).—Capital, 2,000*l*. Objects: To take over the recipes and full information relating to the process of manufacturing and the right to manufacture a certain medicinal preparation known as "Vitallo." R.O.: Halam House, Halam, near Southwell, Notts.

B. H. Baker & Co., Ltd. (P.C.).—Capital, 5,000*l*. Objects: To carry on the business of chemists, druggists, drysalters, oil and colour men, etc., and to adopt an agreement with B. H. Baker, senr. The first directors are: B. H. Baker, senr., Haven Lodge, Formby, and B. H. Baker, junr., Glen Maye, Mines Avenue, Aigburth.

Cyanide Trust, Ltd. (P.C.).—Capital, 2,500*l*. Objects: To acquire interests in any patents, etc., relating to the manufacture of cyanide, ammonia, ammonium sulphate, ammonium nitrate, and nitric acid, etc., and to enter into an agreement between F. J. Commin and W. T. Dean. R.O.: 5 Victoria Street, Westminster, London, S.W.

Technical Development Co., Ltd. (P.C.)—Capital, 100,000*l*. Objects: To carry on business as dye manufacturers, manufacturers of malt products, brewery by-products, explosives, chemicals, pharmaceutical preparations, colours, guns, rifles, ammunition, proprietary articles, electrical, chemical, and scientific apparatus and material, etc. R.O.: Ock Lea, Ock Street, Abingdon, Berks.

Ironmonger & Son, Ltd. (P.C.).—Capital, 5,000*l*. Objects: To carry on the business of importers, exporters, brokers, factors and merchants of and agents for all classes of merchandise, ship and insurance brokers, carriers, chemists, etc. The first directors are: W. J. Ironmonger and Ivan H. Ironmonger. Solicitors: Neve, Beck & Kirby, 21 Lime Street, London, E.C.

Orlene Co., Ltd. (P.C.).—Capital, 1,000*l*. Objects: To take over the business carried on by T. H. Kirk, at 38 Station Road, Croydon, as manufacturer of certain aural remedies known as "Orlene," "French Orlene," and "Sourdal." The first directors are: A. H. Rayment, 12 Grangewood Mansions, South Norwood, S.E., and G. W. Carter, 118 Lebanon Road, Croydon. R.O.: 38 Station Road, Croydon.

Synthite, Ltd. (P.C.).—Capital, 50,000*l*. Objects: To acquire the trade-mark "Synthite," registered in the name of Robinson Bros., Ltd., and to carry on the business of manufacturers of synthetic materials and chemicals, coke, tar, pitch, ammoniacal liquor, and other residual products, carbonisers of coal, naphtha distillers, manufacturers of alizarine, coal-tar colours, dyes and dyestuffs, etc. R.O.: High Street Chambers, Coventry.

Foster Clark (1920), Ltd. (P.C.).—Capital, 300,000*l*. Objects: To take over the business of Foster Clark, Ltd., and to carry on the business of grocers' sundriesmen, manufacturers of and dealers in concentrated foods, meat extracts, essences, jellies, essential oils, fruit juices, jams, soups, food beverages, cordials, and pickles, etc. The first directors are: G. Foster Clark, H. C. Clark, and W. B. Clark. Secretary: G. E. Nias-Tomes. R.O.; Hart Street, Maidstone.

Lion Essence & Chemical Co., Ltd. (P.C.)—Capital, 10,000*l*. Objects: To acquire the business carried on by G. C. H. Whiting at Guildford Road, Brighton, as the "Lion Essence and Chemical Co." The first directors are: G. C. H. Whiting, 57 Buckingham Place, Brighton, essence manufacturer, and E. Watts, 55B Buckingham Place, Brighton, chemist. R.O.: 13 Guildford Road, Brighton.

G. Rudolf Grubb Lens & Rowland Engineering Works, Ltd. (P.C.)—Capital, 5,000*l*. Objects: To carry on the business of manufacturers of, agents for, and dealers in optical, mathematical, astronomic, and scientific instruments, instruments of precision, electricians, chemists, dealers in films, phonographs, cinema apparatus, etc. Solicitor: T. H. Goodwin, 14-15 Coleman Street, London, E.C.

Jackson Innes and Co., Ltd. (P.C.).—Capital, 2,000*l*. Objects: To carry on the business of manufacturers of and dealers in surgical dressings, cotton-wool, lint, tissues, gauze, drugs, oils, colours, proprietary articles, etc. The permanent directors are: W. E. Jackson, 36 Riverway, Palmer's Green, N., merchant; and A. Innes, 25 Birchington Road, N.W., chemist. R.O.: 151-7 Goswell Road, London, E.C.

Robert W. Phillips, Ltd. (P.C.).—Capital, 2,000*l*. Objects: To take over the business carried on by R. W. Phillips at Craven House, Kingsway, W.C., and to carry on the business of manufacturers' agents, importers and exporters of and dealers in essential oils, essences, perfumery, drugs, fine and heavy chemicals, medicinal and other salts, patent medicines, etc. The first directors are: R. W. Phillips (permanent governing director and chairman) and A. J. Nunn. R.O.: Craven House, Kingsway, London, W.C.

J. J. Morrison & Sons, Ltd. (P.C.).—Capital, 1,000*l*. Objects: To carry on the business of manufacturers of adhesive transparent plaster, rubber, surgical and pharmaceutical plasters, dealers in raw and refined goldbeater's skin, dealers in and agents for photographic, surgical, optical, dental, and scientific apparatus and appliances, etc. The first directors are: J. Watson, Briarwood, Northumberland Avenue, Gosforth, Newcastle-on-Tyne; and H. M. Morgan, Gosforth, Newcastle-on-Tyne. R.O.: 2 St. Nicholas Buildings, Newcastle-on-Tyne.

Graesser-Monsanto Chemical Works, Ltd. (P.C.).—Capital, 400,000*l*. Objects: To carry on the business of manufacturing chemists, manufacturers of carbolic acid, picric-acid makers, coke, tar, and gas producers, tar distillers, refiners of tar products, manufacturers of finished products therefrom for all purposes, including explosives, pharmaceutical and fine chemicals, essences, dyes and intermediate products, etc., and to adopt agreements with R. Graesser, Ltd., and J. F. Queeny. Solicitor: P. D. Thomas, 1 Bush Lane, Cannon Street, London, E.C.

E. B. Dive & Co., Ltd. (P.C.).—Capital, 30,000*l*. Objects: To take over the businesses of manufacturing chemists carried on by G. J. Kemball and E. Kemball, at Old Gravel Lane, Wapping, as "E. B. Dive & Co." and "Whinfield Hora & Co." The permanent directors are: G. J. Kemball, Rosemont, Palmerston Road, Buckhurst Hill, manufacturing chemist; E. Kemball, Southleigh, New Eltham, manufacturing chemist; and S. J. Kemball, Myless, Monkhams Avenue, Woodford Green, manufacturing chemist. R.O.: 46 Old Gravel Lane, Wapping, London, E.

Festivities.

Oldham Pharmacists' Whist-drive.

The annual whist-drive and dance of the Oldham Pharmaceutical Association, President, Mr. F. Newby, was held in the Café Monico recently. The prizes for whist were won by Mrs. Stewart, Mrs. J. Taylor, Mrs. H. Gee, Messrs. J. Finlay, W. Frank, and W. Yates. There was a good attendance.

Boots (Leeds) Dance.

The second annual fancy-dress dance organised by the staff of Boots, Ltd., Boar Lane, Leeds, took place on March 3, at Collinson's Café. The guests, numbering 100, spent a most enjoyable time. Prizes were distributed by Mrs. Hollingworth to the successful competitors—Miss Sewell (as Chu-Chin-Chow), Mr. Walker (as Rajah). A special prize was awarded to Miss Atkinson (as Ranee) by the adjudicators, Mrs. Hazelgrove, Dr. Pollard, and Mr. Morrieson. Mr. Hollingworth (Bond Street branch) carried out the duties of M.C.

Liverpool Students' Social.

The first annual whist-drive and dance of the Liverpool School of Pharmacy (part-time students) was held at the Britannia Café, Cunard Buildings, on March 3. The whist party, with Mr. Phythean as M.C., enjoyed a keen game, at the close of which Mr. Humphreys Jones (Principal of the College) presented the first prizes to the following: Mrs. A. Davies and Mr. Woods. After the interval those present (to the number of nearly 200) adjourned to the ballroom, where, with Mr. O. Campbell and Mr. W. Topping as M.C.s, dancing continued until 11 P.M.

Ealing Pharmacists' Whist Party.

A successful whist party was held at the Priory Club, Acton, London, on March 4, by the Ealing Pharmacists' Association. Over 170 persons were present. The prizes were offered by wholesale houses, and members of the Association. The winners were: *Ladies*: 1st, Mrs. Barton; 2nd, Mrs. Hughes; 3rd, Mrs. Norman. *Lowest score*: Mrs. S. Smith. *Gentlemen*: 1st, Mrs. Bancroft (lady playing as a gentleman); 2nd, Mr. Harwin; 3rd, Mr. Webb. *Lowest score*: Mr. Stokes. *Hidden number prize*: Mr. Goodson. The prizes were presented by Mrs. McKee, wife of the President, and the social secretary, Mr. Arnold Roberts, was responsible for the arrangements.

Ayrton's Social.

About 150 employés of Ayrton, Saunders & Co., Ltd., attended an enjoyable whist-drive and dance at Claremont House, Everton Road, Liverpool, on February 27. The committee provided prizes for the whist-drive, and "jazzing" lasted from 8.15 till 11.45 P.M. This is the fourth of a series of excellent socials given by the Works Committee. Another dance will be held on March 26.—Ayrton's Amateur Football Club held a very enjoyable evening at the Bee Hotel, Liverpool, on March 6. Mr. C. Huxtable, director of Ayrton, Saunders & Co., Ltd., occupied the chair, supported by Mr. H. Nixon, vice-chairman of the company, and Mr. J. Duncan, another director. The musical and vocal part of the programme was of the usual Ayrton high-class standard. Mr. "Wullie" Sutherland gave a new version of "Parlez Vous," while the perpetrator of the latest joke was Mr. W. A. Thomas. He had been singing the song about "The lady with the squint, she was that cross-eyed that when she cried the tears ran down her back." When he was asked what kind of complaint she suffered from, he replied "Backteria."

West Ham Pharmacists' Dinner.

The fifteenth annual dinner of the West Ham and District Association of Pharmacists was held at the Holborn Restaurant, London, W.C., on March 4, the President (Mr. Alexander Catto) in the chair. West Ham pharmacists have, it is clear, solved long ago the problem of being all things to all men; on this occasion, although Parliamentary representatives were for once absent, the tables in the handsome York Room of the "Holborn" were again filled with a gathering drawn from many walks of life. Supporting the President at the top table were Mr. Herbert Skinner and Mr. John Keall (of the Council of the Pharmaceutical Society of Great Britain); Sir William Glyn-Jones (secretary of the Society); Mr. T. Edward Lescher; Mr. J. W. Facy and Dr. Frederick H. Dayus (chairman and vice-chairman respectively of the West Ham Insurance Committee); and Mr. A. R. Keith. Among the general company ladies were present in good numbers, and a solid phalanx of representatives of The British Drug Houses, Ltd. (Mr. R. F. Jones), Thomas Hodgkinson, Prestons & King (Mr. T. Scarlett), Wright, Layman & Umney, Ltd., Meggeson & Co., Ltd., and other well-known wholesale houses, looked very imposing. An excellent dinner was duly followed by the loyal toast, and the speeches were agreeably set in a framework of entertainment. Mr. E. N. Lloyd opened the list with the toast of "The Pharmaceutical Society," coupling with it the name of Sir William Glyn-Jones, whose work in the formation of the Proprietary Articles Trade Association he cordially eulogised. In reply, Sir William Glyn-Jones, after expressing regret at the absence of Mr. W. L. Currie, dwelt at some length on the activities of the Society, describing it as fulfilling the function of an excellent lightning-conductor for those who have anything to be troubled about. Pharmacists, even non-members, could not ignore it, he urged. Last year those who decried their Society found, during the by-law controversy, that there was a good deal of life in it. Subsequent events had not shown that the estimate of the number of persons likely to be admitted under this by-law was an underestimate. (Applause.) Near the close of his speech Sir William said that he could forecast criticisms coming, in a year or two, concerning the large number of men likely to be newly qualified by then. He hoped that these men would not feel that hardship was placed upon them, and that they would be broad-minded enough to appreciate the difficulties of the situation. The Society's duty was to see that qualified men were not out of employment by reason of infringements of the Pharmacy Act. Next came "the toast of the evening," as it was described by the mover, Mr. Herbert Skinner: "The West Ham and District Association of Pharmacists." Mr. Skinner pointed out that throughout the war the West Ham Association had maintained, in some way or other, an unbroken sequence of annual gatherings. In this connection he paid a moving tribute to the late Mr. James Kirkpatrick and the late Mr. J. H. Matthews, and went on to refer appreciatively to the work of this year's President. He (the speaker) had been told, he added, that on taking two or three men out of any association the association would collapse. That was not true of West Ham. (Applause.) The President responded in a speech of admirable sincerity and brevity. "The Medical Profession" was proposed by Mr. W. Potter, who, after pointing out that at least four medical men were present, told a droll—and presumably true—story of a patient who was seen to leave a panel doctor's surgery with two certificates and a prescription, the last of which was promptly thrown away. Dr. Dayus, replying, evoked much laughter by a comparison of the attitude of the Ministry of Health to doctors who asked for increased remuneration with the Ministry's attitude to pharmacists in similar case,—"they were more afraid of the pharmacists" was the doctor's suggestion. The other toasts were: "The West Ham Insurance Committee," proposed by Mr. C. A. Jones (ex-President of the Association), and humorously responded to by Mr. J. W. Facy; "The Ladies," proposed by Mr. C. Andrews Pratt and gracefully acknowledged by Mrs. Catto; and "The Visitors," proposed by Mr. J. E. Evans and replied to by Mr. T. Edward Lescher. "Auld Lang Syne," as the lights began to fail, concluded an evening that formed a worthy addition to its predecessors of pleasant memory.

Better Late than Never.—A writer in "The Practitioner" has discovered that the variation in the sizes of teaspoons and tablespoons renders it desirable that medicine should be measured in a medicine-glass.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

Veterinary Surgeons Bill.

Sir Alfred Warren, M.P., has given notice of his intention to move the rejection of the Veterinary Surgeons Act (1881) Amendment Bill.

British Petroleum.

The Secretary of the Department of Overseas Trade, who is also the Minister for Petroleum Affairs, stated in the House of Commons, on March 8, that up to the present 2,300 barrels of petroleum have been produced from the oil wells in Derbyshire.

British Ambassador to the United States.

Sir Auckland Geddes, the President of the Board of Trade, has been appointed British Ambassador to the United States. He is the author of the futile Profiteering Act, which it is hoped the Government will repeal now that its uselessness has been amply demonstrated.

Gretna Explosives Factory.

It was stated in the House of Commons on February 25 that the total capital expenditure on the building and equipment of the Gretna Green Explosives Factory has been 9,230,143*l.* The working cost has been 14,846,697*l.*, and the value of the cordite produced 16,690,246*l.* The cost of obtaining this quantity of cordite from America, on whom we were formerly dependent, would have been 26,253,686*l.* In part of the building "certain work in connection with the denaturing of ether" is being carried on. It is proposed to retain the factory permanently for the production of propellants.

High Prices.

In reply to a question in the House of Commons, on March 4, the Prime Minister said he did not think that the question of high prices is one that lends itself to inquiry by a Royal Commission. He added that the prices of many important commodities have been, or are being, investigated by Committees under the Profiteering Act. The more general economic causes underlying recent movements of prices are for the most part matters of common knowledge, and the question of the steps which can be taken to hasten the return to normal conditions is receiving the anxious consideration of the Government and of the Supreme Council. It is proposed to arrange a general discussion in the House on the question of high and increasing prices of necessary commodities.

British Property in Germany.

Mr. Wallace asked the Under Secretary of State for Foreign Affairs, on March 4, whether there are sufficient funds accruing from the sale of German assets in this country to liquidate the whole of the claims made for British property in Germany; and, if not, whether the claims made through the Clearing House and those to be decided by the mixed Arbitral Tribunal will be settled on the same financial basis.

Mr. Bridgeman replied: The returns made to the Public Trustee indicate that sufficient funds may be expected from property in this country belonging to German nationals to meet the whole of the claims by British nationals in respect of their property rights and interests in Germany. The second part of the question does not, therefore, arise.

Foot-and-Mouth Disease Committee.

Sir A. Boscawen stated in the House of Commons, on March 8, that the following have consented to serve on the Committee set up to deal with the problems arising from foot-and-mouth disease: Professor Robert Muir, Professor of Pathology, University of Glasgow (chairman); Sir John M'Fadyean, Principal and Professor of Pathology and Bacteriology at the Royal Veterinary College, Camden Town; Lieut.-Colonel C. J. Martin, Director of the Lister Institute of Preventive Medicine; Clifford Dobell, Esq., Protistologist to the Medical Research Committee; Professor J. M. Beattie, Medical Faculty and Veterinary School of the University of Liverpool and City Bacteriologist; Sir Stewart Stockman, Chief Veterinary Officer, Ministry of Agriculture.

Venereal Disease.

Mr. John Davison, on March 10, asked the Minister of Health whether he has arranged for the keeping of records regarding the treatment centres for venereal diseases established partly or wholly at the public expense.

Dr. Addison replied: The number of cases dealt with for the first time at these centres between January 1, 1917, when the first treatment centres were opened, and December 31, 1919, is approximately 175,000. The approximate expenditure of local authorities on their schemes for the diagnosis and treatment of venereal diseases during the years ended March 31, 1917, 1918, and 1919, amounted to £18,000, £116,000, and £216,000 respectively. The estimated expenditure during the current financial year is £314,000. Of this expenditure 75 per cent. is borne by national funds and 25 per cent. by local funds.

The Prices of Dyes.

Mr. Bridgeman stated on March 1, in the House of Commons, that on December 2 the Standing Committee on Trusts of the Central Committee under the Profiteering Act proposed that a sub-committee should be appointed to investigate dye-stuffs with the following terms of reference: "to ascertain to what extent supplies and prices of dyes and dye-stuffs are controlled or affected by the British Dye-Stuffs Corporation, Ltd." While the names of certain gentlemen were discussed in connection with the proposal to appoint a sub-committee, no appointment of members of the sub-committee was actually made by the Standing Committee on Trusts, and as a result of further consideration of the matter it is proposed to extend the terms of reference to read as follows: "To investigate the position with regard to dye-stuffs and to ascertain whether any trust or trade combination exists; and, if so, its effect on supplies and prices."

Panel Doctors' Pay.

Dr. Addison, Minister of Health, announced in the House of Commons on March 8, that the Arbitration Committee have found that the sum of 11*s.* per insured person to be made available to provide payment for medical men under the National Health Insurance Service Scheme is a sum which should properly be paid to them. After careful consideration, in view of the promise made during the war that the amount available for payment to medical men should be increased and in view of the improved conditions of service required to be rendered under the new medical benefit regulations, the Government proposed that, apart from the special arrangement for mileage and the administration of drugs, the amount of 11*s.* per insured person should be made available for this purpose. The Insurance Acts Committee (representing the Conference of Local Medical and Panel Committees throughout the country) were unable to accept this offer, and pressed the Government to provide a sum of 13*s.* 6*d.* After prolonged and friendly negotiations, it was ultimately agreed that the matter should be referred to arbitration, and Mr. W. F. Gore Browne, K.C., Sir Richard V. Vasser-Smith, and Dr. J. C. Stamp were agreed upon as arbitrators, the Government on its side undertaking to recommend Parliament to give effect to the findings of the arbitrators, and the Insurance Acts Committee on their part undertaking that they and the Panel Committees would co-operate in securing from the practitioners throughout the country a full and efficient service, with goodwill, under the settlement as a whole, including the terms of the award. After a full hearing of the case on both sides, the arbitrators find that the offer which was proposed on behalf of the Government was a fair and adequate offer; and proposals will accordingly be submitted to Parliament in due course to give effect to this finding.

Birth.

Lambert.—On February 26, the wife of Robert M. Lambert (Samuel Lambert & Co., 14 Mincing Lane, London, E.C. 3), of a daughter.

Deaths.

Abernethy.—At Lismoyne, Knock, on March 6, Minnie, second daughter of the late Mr. C. B. Abernethy, R.D., and sister of Mr. Charles Abernethy, R.D., Albert Bridge Road, Belfast.

Bowman.—At his residence, West Street, Carrickfergus, on March 5, Mr. Daniel Bowman, J.P., chemist and druggist, aged ninety-two. Mr. Bowman carried on business in Carrickfergus for many years. He was appointed a magistrate thirty years ago, and was at one time chairman of the harbour board and a member of the town council. He was also actively interested in many other local institutions. The funeral took place on March 8.

Dean.—At Chesham Cottage Hospital, on March 6, following an operation for appendicitis, Mr. Oswald S. Dean, aged forty-one. Mr. Dean, who was the son of the late Mr. Charles G. Dean, chemist, 36 High Street, Chesham, had been with Barron Harveys & Co. and the British Drug Houses, Ltd., for about fifteen years, and in June 1919 was appointed to the staff of town representatives of the latter company.

Fowler.—At 1 Beechwood Crescent, Burley, Leeds, on March 4, Mr. Edwin Fowler, chemist and druggist. Mr. Fowler, who qualified in 1875, was in business at 218 Hessle Road, Hull, for many years. He died at the residence of his son, Dr. E. S. G. Fowler.

Holdroyd.—At Harrogate, on February 27, Mr. George H. Holdroyd, formerly a director of Clayton, Holdroyd & Co., Ltd., manufacturing chemists, Longroyd Bridge, Huddersfield, aged sixty-five.

Homer.—In Ireland, recently, Mr. Absalom Homer, chemist and druggist, formerly of Bedworth, Warwickshire. Mr. Homer was in business before August 1, 1868.

Mackinlay.—At Liverpool, on March 5, Mr. Frederick James Mackinlay, chemist and druggist. Mr. Mackinlay, who was registered as being in business before August 1, 1868, had a pharmacy at 31 St. James's Street for many years. He was one of the oldest members of the Liverpool Chemists' Association, the meetings of which he attended until last year. He was very popular with his colleagues, and his recent absence through illness led to many sympathetic inquiries. Mr. Mackinlay married late in life, and his wife predeceased him.

Mercer.—Recently, Mr. Frederick C. Mercer, drug-store proprietor, 4 Cookson Street, Blackpool.

Robson.—At Garfield Road, Scarborough, on March 7, suddenly, Mr. William Stubbs Robson, chemist and druggist, aged sixty-five. Mr. Robson, who was a cousin of Sir Mayo Robson, F.R.C.S., qualified in 1879. He retired from business some years ago. He was well known in Masonic circles in Yorkshire as a Past Master of the Filey Lodge of Freemasons.

Rough.—At his residence, Wellford, Broxburn, on February 29, suddenly, Mr. Edward D. Rough, of Robert Rough & Sons, Cawburn Chemical Works.

Personalities.

Mr. K. B. Mavlankar, essential oil merchant, 26-27 Hatton Garden, London, E.C., is at present in Holland on business for a few days.

Mr. D. J. Bailey, chemist and druggist, Lytham Road, South Shore, Blackpool, was elected to the executive committee of the South Shore traders' association on March 4.

Mr. J. Y. Fairweather, chemist and druggist, Sydenham Road, London, S.E. 26, has been elected first chairman of the local branch of the National Sub-Postmasters' Federation.

Mr. Geoffrey L. Mander, J.P. (Mander Brothers, chemical colour manufacturers, Wolverhampton), has been adopted as a prospective candidate for the Leominster Division of Herefordshire.

Mr. H. L. Schofield, who has been with Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool, for eighteen years, will now represent the company in Lancashire and Ireland.

Miss M. F. Duncan, eldest daughter of Mr. H. R. Duncan, chemist and druggist, 8 East Reach, Taunton, has passed the Oxford Senior local examination, with first-class honours and with "distinction" in three subjects.

Mr. Samuel W. Fairchild (Fairchild Bros. & Foster, New York and Holborn Viaduct, London, E.C. 1) was the chief guest at a luncheon given recently in the Hôtel Plaza, New York, by M. Maurice Casenave, Minister Plenipotentiary and Director-General of the French Services in the United States. M. Casenave took this occasion to confer upon Mr. Fairchild the decoration of a Chevalier of the Legion of Honour.

Organising the Drug-trade.

General Workers' Union.

The Southport National Warehouse and General Workers' Union (Pharmacists' Section) held a meeting on March 3, at which Messrs. Kneale and Spalton (Liverpool) explained the aims and objects of the Union. The members afterwards unanimously decided to form a local branch. The officials and committee were appointed, and several new members enrolled.

Drug Union Meetings.

The Brighton branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers met recently to hear an address by Mr. H. B. Mackie, Ph.C., on *Pharmacy as a Career*. Mr. Mackie is in charge of a large class of pharmaceutical students at the Training College, Brighton.

The monthly meeting of the Exeter branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers was held on March 5 at the Franklin Hotel, Exeter, when the President (Mr. Howard Jones) presided over a fair attendance. Messrs. Westacott and Baker, of the Workers' Educational Association, addressed the members on the aims of the Association. Mr. S. J. Daniels also spoke advocating an increased demand by the workers for further educational facilities. Several points were entrusted to Mr. Howard Jones to deal with at the forthcoming annual general meeting in London.

A meeting of the assistants of Boots, Ltd., was held at the Progressive Pharmacy Club, Arundel Hotel, London, W.C., under the auspices of the Amalgamated Society of Pharmacists, Drug and Chemical Workers (London Retail Section), on February 29. It was stated that the recent meeting of managers had been very successful, and Messrs. Boots are said to be now paying out increased salaries to practically every manager and assistant. An unqualified assistant stated how, as a representative of the "unqualified" at a district meeting of managers and qualified assistants convened by Boots, Ltd., he, with other unqualified representatives, were requested to withdraw at a certain point on the agenda. He regretted to see that it had been definitely decided that assistants were not going to participate in the company's "Benevolent" scheme. It was resolved that bi-monthly meetings of Messrs. Boots' assistants (qualified and unqualified) be held under the auspices of the union to be called "Boots' Assistants' Association." Exception was taken to the opinion expressed at a meeting of Boots' employés in Anderton's Hotel (*C. & D.*, February 28, p. 82) that the figure of 5*l.* 15*s.* for unqualified assistants was excessive. The functions of a Boots' Staff Association in relation to a Joint Industrial Council were then touched upon, and a discussion on the recognition of dispensers under Insurance regulations followed.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration. See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade-marks Journal," January 21, 1920.)

"Seeio Brand Headache Powders"; for headache powders (3). By Wilson & Stewart, 185 Commercial Street, Kirkcaldy. 393,076.

"Aerosan Brand a Laxative," "Ovasan Brand a Blood Purifier"; for medicines (3). By J. M. Turner, 1B Bath Parade, Bristol. 394,690/1.

"Sanosul Brand Medicated Soap"; for medicinal chemicals (3). By the Wylton-Marshall Remedy Co., Ltd., 52 Albany Road, Coventry. 396,431.

"Igen Brand Wilkinson's Embrocation" ("Wilkinson's" disclaimed); for an embrocation (3). By C. H. Wilkinson, 13 Torrington Street, Hull. 396,942.

"Fortuna," with picture of forest; for medicinal chemicals (3), goods (47), and perfumery, etc. (48). By Lever Brothers, Ltd., Port Sunlight, Cheshire. 397,675/6/7. (Associated.)

"Vitrex"; for lenses (8) and for optical glass (15). By Optics, Ltd., Victoria Chambers, Southampton Buildings, London, W.C. 2. 396,721/2. (Associated.)

"Teleklyt"; for goods (3). By Paterson & Service, 38 Bath Street, Glasgow. 397,280. (Associated.)

"Almacoa" on diamond-shaped device under words "Allied Machinery Company of America"; for all goods (8). By Allied Machinery Co. of America, 120 Broadway, New York, U.S.A. 397,384. (Associated.)

Device of electric spark on black circle for electric batteries (11). By Siemens Brothers & Co., Ltd., Palace Place Mansions, Kensington Court, London, W. 8. 397,241. (Associated.)

"Sauer's" over device of eagle and medals ("Sauer's" disclaimed); for food extracts, etc. (42). By the C. F. Sauer Co., Meadow Street, Richmond, U.S.A. 392,639.

"A L A"; for food substances (42). By Fabrique de Produits Chimiques Flora Dubendorf, Switzerland. 395,233. (Associated.)

"F R A S"; for food substances (42). By G. F. Humphrey, St. Margaret's, London Road, Peterborough. 396,036.

"Volite"; for a cream of tartar substitute (42). By A. Hardy, 20 Hutson Street, Bradford. 397,399.

"Beldamite" ("Beldam" disclaimed); for all goods (47). By the Beldam Packing and Rubber Co., Ltd., 29 Gracechurch Street, London, E.C. 3. 396,178.

"Hygex" on jar standing on false teeth with words "So Essential"; for goods (48). By the Ellison Co., 14A Atlantic Road, Brixton, London, S.W. 9. 395,864.

"A Z A"; for dental preparations (48). By W. J. Sirett, 65 Elgin Road, Croydon. 396,132.

"Jasma"; for toilet articles (48). By Amelia E. Potts, 23 Trevor Square, London, S.W. 7. 396,467.

"B" with device of two hand-bells ("B" disclaimed); for toilet articles (48). By H. H. Farrar, 11 Chapel Lane, Meanwood, Leeds. 396,692. (Associated.)

"Charmtress" and "Lenora"; for perfumery, etc. (48). By the Parkside Manufacturing Co., 122 Petherton Road, Clissold Park, London, N. 5. 397,246/462.

"Poppisana"; for all goods (48). By C. Midgley, Ltd., 5 Mayes Street, Manchester. 397,553.

Picture of head of horned animal for hair-combs, etc. (50). By the Ilex Manufacturing Co., 39 Cheapside, London, E.C. 2. 396,218.

"Tropex"; for brushes (50). By C. H. Long & Sons, Sherbourne Road, Balsall Heath, Birmingham. 396,993. (Associated.)

"C T B," with facsimile signature on label device; for goods (50). By C. Thomas & Bros., Ltd., Broad Plain Soap Works, Bristol. 397,211. (Associated.)

(From "The Trade-marks Journal," January 28, 1920.)

"E G A"; for chemicals (1). "A L A"; for perfumery, etc. (48). By Fabrique de Produits Chimiques Flora, Dubendorf, Switzerland. 395,235/234. (Associated.)

"B D C" on hexagonal and oval devices ("B D C" disclaimed); for chemicals (1, 2, and 3) and for goods (4). By British Dyestuffs Corporation (Huddersfield), Ltd., St. Andrew's Road, Huddersfield. 395.940/1/2/3/4/5/6/7/8/9/50/1. (Associated.)

Device of two chain links bearing name "Brotherton & Co., Limited"; for chemicals (1). By Brotherton & Co., Ltd., City Chambers, Infirmary Street, Leeds. 397,290. (Associated.)

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Trade Notes.

Toilet Soaps.—Several of the 7*d*. proprietary toilet soaps are shortly to be raised in price to 8*d*.

Erasmic Shaving-sticks.—The retail prices of the Erasmic shaving-sticks have been raised to 1*s*. 3*d*. (in blue enamelled tin) and 1*s*. 6*d*. (in nickel case).

Bottles.—Ayrton, Saunders & Co., Ltd., Liverpool, devote their page to quotations for bottles, a feature of which is that these can be supplied for immediate delivery.

Tubelettes.—The Anglo-American Pharmaceutical Co., Ltd., Croydon, referring to the recent change in the price of menthol and wintergreen cream tubelettes, ask us to state that the only alteration has been in the 3*s*. size, which has been advanced to 3*s*. 6*d*. (Corrected notice.)

Patents and Designs Act, 1919.—Mr. Reginald W. Barker, patent and trade-mark agent, 56 Ludgate Hill, London, E.C. 4, has issued a summary of the Patents and Designs Act, 1919, in the form of a circular. The new features of the Act are set forth in a concise manner. Mr. Barker will send a copy of the circular to those who ask for it.

"1915" Eau de Cologne.—The British Toilet and Perfumery Co., 64 Great Titchfield Street, London, W. 1, advertise in this issue their "1915" eau de Cologne, this being one of the series of "1915" toilet specialities. It will be noted that a special cash discount is to be allowed on orders of the net value of 10*l*. and 20*l*. to those chemists who will make a prominent window-display. We have examined a sample of the "1915" eau de Cologne and find it of full spirit strength, and of the sweet and smooth perfume which makes the preparation so grateful in the sick-room.

Price Alterations.—Meggeson & Co., Ltd., New Church Street, Bermondsey, London, S.E. 16, intimate the following alterations in the protected prices (face value) of several of their packed goods: Bismuth dyspepsia tablets, 1*s*. 3*d*., 3*s*. 3*d*.; cinnamon influenza tablets, 1*s*. 3*d*.; formalin throat lozenges, 1*s*. 3*d*.; iodized throat lozenges, 1*s*. 3*d*.; bismuth magnesia tablets, 1*s*. 3*d*.; Tower Bridge toffee, 1*s*. 3*d*.; phosphogen, bonbons, 2*s*.; beef-tea lozenges, 2*s*.; original delectables, 1*s*. 6*d*.; eau de Cologne, (1 oz.) 1*s*. 6*d*., (2 oz.) 2*s*. 6*d*., (4 oz.) 4*s*. 6*d*., (½ pint wicker) 7*s*. 6*d*., (1 pint) 12*s*. 6*d*.; lavender water, (1½ oz.) 2*s*. 6*d*., and (3 oz.) 4*s*. 6*d*.

De Luzy Perfumery.—We referred recently to the agency for the De Luzy toilet preparations and perfumes which has just been taken over by W. H. Calnan & Co., 30-32 Ludgate Hill, London, E.C. 4. Since then we have received samples of the Poudre and Creme De Luzy as well as specimens of the advertising matter—showcards and posters—which are sent out to chemists. The packing of these toilet preparations is exceedingly tasteful, and the fixed minimum prices are moderate for the class of goods. The De Luzy perfumes of natural flowers are also well packed, and the perfume is exceptionally good. The goods yield a clear 50 per cent. on cost.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

C/103. Hemingway's lead arsenate
M/103. A.I. lightning sprays
M/103. Gifford razor strops
E/103. "Pinine"
E/103. Norman Stewart's eye ointment
S/93. "Mosquitox"
S/93. "Ryall" ointment
S/103. Dr. Shiel's "Stomco"
S/83. St. John's perfumed cards
E/53. "Itola" capsules
D/53. Sequah's Instant Relief
D/53. Stevens' guttapercha tooth enamel
D/53. Trench's Remedies.
BS/63. "Ka-Ju-Dore" pomade
BC/43. "Thoro" electric hair-brush
B/83. "G.P." disinfectants
B/83. "Kolocain"
B/83. Halfords' patent feeding-bottle holder
B/83. Guards' body belts
B/83. "Ramion" book rest

Observations and Reflections.

By Xrayser II.

In 1907,

it seems, a special financial inquiry committee made a recommendation to the Pharmaceutical Council intended to act as a check on expenditure. I can find no mention of this in your reports of Council-meetings for the year 1907, but I presume the recommendation was adopted, since it is now to be superseded by another ostensibly more stringent, which will, it is to be hoped, be better kept in mind. For apparently it has never been acted upon. The treasurer made the amazing statement that most members of the Council seemed to be unaware of its existence, and spoke of it as a discovery—apparently very much like that of the Mosaic law in the time of Josiah. I do not understand that Mr. Bilson, following the example of that good king, "rent his clothes" when the forgotten recommendation was brought to his notice, and perhaps that would be too expensive a display of emotion just now even for such a shock as this, but the occasion demands some expression of opinion of the conduct of the Society's financial affairs by the Council. It is high time we changed its *personnel*, if this is the way in which it carries on business.

When Searching your Columns

for the above-mentioned recommendation I came across a letter from Mr. James Mackenzie, J.P., of Edinburgh, which is so extremely pertinent to the present situation that I am constrained to reproduce a few sentences from it. Its theme is the general incompetence and perversity of the Council, especially its persistent disregard of the wishes of the trade, and its subservience to its own officials. Mr. Mackenzie says: "It is pretty patent that the members of Council are ruled by the secretary, and have seemingly become mere automatons. . . . Let us look for men of ability to be returned to the Council, who will take nothing for granted and become masters of the situation. And in making the yearly appointment of a secretary go resolutely in for a change, getting one who will be more of a servant than a master. . . . The official eyes at Bloomsbury Square have long exhibited a 'verdant hue.' The most recent attempt seems to denude us, under the garb of new by-laws, of our legal rights, and thus place the whole body under the control of the secretary in London. We have had enough of this." Thus spoke a member of forty years' standing, and a good deal of what he said was endorsed by others, including the then Editor, Mr. Peter MacEwan. His remarks are trebly applicable to our present situation.

Messrs. Leath & Ross

are masters of the art of retreat. Their first statement was that the good ship homœopathy has been manned since 1870 by many eminent medical men, some of whose names they gave, and that it is still in the charge of others, their worthy successors. This in itself appears to me a little disingenuous, since some (and I suspect most) of these selected men were practising before 1870. The most eminent of them all, Dudgeon, the translator of Hahnemann into English, certainly was, and when he died in 1904 (aged eighty-four) he had been for forty years the editor of "The British Journal of Homœopathy." What I asked for was evidence that these men had left successors of equal eminence in sufficient numbers to justify the belief in the continued progress of homœopathy in this country. Thus challenged, Messrs. Leath & Ross shifted their ground. It was, they said, a sort of moral, or perhaps I should say subterranean, advance they moant; but, anyway, in America there had been an enormous increase of homœopathic practitioners. I admit that there is a distinction here, but it is one that evades the question. Again, Messrs. Leath & Ross, in retiring from the controversy, cover their retreat by charging me with having misrepresented what "Medicus" said. His actual words were: "How do the extreme dilutions of drugs act? Whatever the explanation may be (I have one that satisfies me, at all events)," etc. Surely this means that he thinks he knows how they act? I may add that fifty years ago I heard a discussion in Messrs. Leath & Ross's own shop, in which two practitioners took part, both of whom agreed that it was impossible to say how they acted. But I did not set out to argue about the merits of homœopathy; I merely asked for information.

Your Article on Vitamines

was not, of course, exhaustive; indeed, the subject is too wide to be easily exhausted, and new facts are continually cropping up. One of the most important is the effect of heat, and consequently of cooking, on vitamines. Funk, to whom we owe the term "vitamine" ("trophozyme" is now suggested as more correct), held that heat destroys them, but this is not entirely substantiated by the report of the Medical Research Commitee to which you referred. Of the three classes into which vitamines are divided, fat-soluble A (anti-rachitic) is said to be relatively stable under heat, though not entirely so, as it is gradually destroyed by a temperature of 100° C., four hours' exposure to which renders butter-fat of very little greater nutritive utility than the same quantity of lard. This finding is reassuring as regards the ordinary processes of cooking. Water-soluble B also resists heat to such a degree that in the baking of bread, for instance, there is no serious diminution of anti-beri-beri vitamines; but the third class (anti-scorbutic) is much more delicate, and we are told that dry or dried foodstuffs will not prevent scurvy. A writer "Lens," in the "New Statesman," discusses at length the question of the presence of vitamines in beer, and is at pains to prove them absent. Yeast is, as you stated, rich in vitamines, but both here and in kilned malt they are destroyed by the process of brewing. Nevertheless (sings Mr. Housman):

> Malt does more than Milton can
> To justify God's ways to man.

But it is not for me to adjudicate between the scientist and the poet.

Spirit of Wine

has been the menstruum of some of our official tinctures ever since the appearance of the first London Pharmacopœia, or rather of the second (that of 1650), for in the first there were no tinctures, so-called, at all. In the second there were seven, of which four were spirituous, though two only were made with rectified spirit. Besides these there were, of course, the compound spirits and other similar preparations, some of which were distilled directly from wine, others were made with spirit, either by distillation or otherwise. Not until 1781 were all our tinctures made with spirit, rectified or proof, though in the Pharmacopœia of 1746 there were but three or four in which wine was used, tinct. opii being one of these. In a good many of the Edinburgh tinctures French brandy was used in place of proof spirit.

A Bishop in Business

as a chemist and druggist is surely a *rara avis*, but according to a note by the late Samuel Butler (author of "Erewhon"), reproduced in Mr. Festing Jones's "Life of Butler," a bishop did actually keep "a chemist's shop in Shrewsbury till his death in the early years of this [the nineteenth] century." This was William Cartwright, born at Newcastle-under-Lyme in 1730, who was consecrated by the non-juring Bishop Deacon, and married his daughter; and although Butler may be right in stating that Lord Cornwallis, while Bishop of Lichfield, startled the people in Shrewsbury by declaring that he was as much a bishop as himself, he cannot have had any legal claim to that title. He was, too, an apothecary rather than a chemist, and he died not in the early years of the nineteenth century, but in the year 1799. The Rev. T. Auden, in his account of Shrewsbury, does not speak of his having kept a shop, but says he practised as a medical man in Mardol (they give very queer names to their streets in Shrewsbury!). Mr. Auden, however, also gives him the title of Bishop, and says that while carrying on his business (or practice) he also acted as minister to a small congregation of like-minded people who used to worship in his house.

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Editorial Articles.

Opium and Morphine.

SINCE we last referred in detail to the opium and morphine traffic, in our issue of January 10 (p. 61), the United States Treasury Department have given a severe and reverberant shock to the international markets by the issue of a ruling prohibiting the export of narcotics after February 19, 1920. The suddenness of this embargo precipitated a crisis in the American opium and morphine markets, as it was impossible to ship the orders on hand

before the ruling became effective, although gigantic efforts were made, as the following statement from the "Oil, Paint, and Drug Reporter" shows:

Extra workers were employed, taxicabs were hired, vehicles of every kind and description were pressed into service, but with the kind of weather New York has been experiencing during the past few months, not to mention other drawbacks, most of these efforts proved to be in vain.

The resulting chaos and approaching collapse of the markets led to an effectual protest to the Treasury by influential financial interests or opium pawnbrokers, importers, exporters, agents, and manufacturers; but just as everybody concerned in the traffic was about to suffer some financial losses the Treasury, under united pressure, gave way, and it was officially notified by the New York Custom House that exports of narcotics might be made freely until April 30, 1920. It may be prophesied that the exports from the United States up to this period will be unprecedentedly large, as there was a stock of approximately 275,000 lb. of opium in bond on January 1. Japan, who has been, and still is, a large buyer of opium in the Smyrna and Constantinople markets, will undoubtedly receive a considerable share of the American stock of opium and morphine, and a certain amount of opium will also be shipped to London by the owners. At the same time, there is already sufficient Turkish, Persian, and Indian opium in London to satisfy all legitimate requirements for many months to come. It is, of course, one of the tasks of the League of Nations to introduce legislation amending the pharmacy laws of the adherents to the League in the manner prescribed by the Opium Convention, but this may be long deferred, as there is likely to be considerable opposition. At the moment there is nothing to prevent German morphine-makers acquiring cheap opium from the United States and continuing the trade with Japan, which country, according to Dr. Mary Stone, head of the largest hospital in China, is smuggling larger quantities than ever into that country, the traffic in opium and other narcotics last year amounting to more than $40,000,000. America now wants to quit the business, as, according to the "Oil, Paint, and Drug Reporter," "most morphine-makers admit that they are glad that an end will be made of this business, despite the fact that it has proven most remunerative." *Sic transit gloria mundi.*

The Ginger Market.

The London market for Jamaica ginger has been steadily rising during the past few months, and this has been due to an unusually large demand from United States buyers. This is partly owing to the prohibition of alcoholic beverages and a considerable demand for so-called "soft" drinks containing "Jamaica ginger." The position of ginger is now strong owing to the largely diminished stocks on the spot, and the poor outlook for receiving normal quantities of the new crop from Jamaica. We are given to understand that the United States has bought largely from the producing island, and probably only the better qualities will find their way to London, as the United States, unless forced by a genuine shortage, will not pay the much-enhanced prices realised in London for the bold root. Our present stock of West Indian, as given in the official stock-list on March 1, was 5,478 packages, against 8,891 packages and 3,449 packages at the corresponding periods of 1919 and 1918 respectively. Only 17 packages have been landed to date, whereas the deliveries were 2,013 packages, the largest for the past five years. The stocks of Jamaica only consist of extreme qualities—*i.e.*, lean and dark root—all more or less wormy, for which 120*s.* per cwt. is wanted, and the bold softer root, for which 145*s.* to 155*s.* per cwt. is asked; qualities in between these grades are almost non-existent. It is practically certain that the market will be considerably dearer when our own consuming season sets in. From a consumer's point of view the African or Sierra Leone ginger is the next best for value, as it contains considerably more "snap" than either the Japanese, Cochin, or Calicut varieties. Here, again, prices have risen during the last few months, although not to such a marked extent, but the greater part of the stock is more or less wormy. It is reported on good authority that there are considerable stocks of the 1918 and 1919 crops awaiting shipment from Sierra Leone to Liverpool, as for several seasons past the opportunity for effecting shipment from the West Coast of Africa have been few and far between. In these circumstances the quality naturally does not improve, as the ginger is affected by hot climatic conditions and long storage in the warehouses, and once the "worm" manifests itself it makes rapid inroads. The last available Colonial Office report on Sierra Leone gives the following in regard to ginger:

The average price per ton in 1917 was about 4*l.* less than in the previous year. The high average price of 36*l.* per cwt. which was offered in 1916 stimulated production. As a result 1,137 tons, valued at 25,863*l.*, were exported in the year under review, compared with 971 tons, valued at 25,814*l.*, in 1916. Of the quantity exported, 904 tons went to the United States of America, 224 tons to the United Kingdom, and the remaining 9 tons to Dakar and the Gambia.

These prices, of course, referred to those obtained by the grower at the source. The spot (London) price for Sierra Leone is 72*s.* 6*d.* per cwt., and probably 2*s.* 6*d.* per cwt. less would be accepted for a round lot; but it is difficult to get offers for any specific shipment, sellers offering "for shipment by first available steamer," and even then the price does not compare favourably with the spot value. The stock of Sierra Leone in London is about 1,966 packages, compared with 5,924 packages in 1919. Liverpool has always been the centre of the West Coast African trade, but the above figures afford no criterion, as they do not include the Liverpool stocks, which, however, are not large. Of Cochin and Calicut ginger there is the large stock of 22,600 packages, which is the heaviest for the past five years, but the bulk of it is more or less wormy.

The United Kingdom trade in ginger as a whole is shown in the following figures:

Imports.

—	1914	1915	1916	1917	1918
	Cwt.	Cwt.	Cwt.	Cwt.	Cwt.
Japan (including Formosa and Japanese leased territories in China)	2,215	535	4,369	17,660	26,270
Other Foreign Countries	436	113	205	3	2,022
Total from Foreign Countries ...	2,651	648	4,574	17,663	28,292
Sierra Leone	24,032	7,295	6,701	4,726	13,686
British India	26,964	27,931	12,202	31,213	3,177
British West India Islands...	9,945	5,398	5,345	7,618	18,156
Other British Possessions	14	3,377	497	127	1,004
Total from British Possessions ...	60,955	44,001	24,745	43,684	36,023
Total	63,606	44,649	29,319	61,347	64,315
	£91,160	£70,986	£71,893	£184,618	£350,460

Re-exports.

——	1914	1915	1916	1917	1918
	Cwt.	Cwt.	Cwt.	Cwt.	Cwt.
Sweden	328	715	849	—	—
Norway	34	615	950	240	—
Germany	1,316	—	—	—	—
United States	12,929	16,046	7,618	519	15
Other Foreign Countries	1.041	847	1,193	1,830	1,155
Total to Foreign Countries ...	15,648	18,223	10,610	2,589	1,170
South African Union ...	834	772	823	739	248
Australia	721	602	402	43	113
New Zealand	186	175	161	52	2
Canada	1,679	1,085	1,677	517	2
Other British Possessions	510	561	696	1,745	517
Total to British Possessions ...	3,930	3,195	3,759	3,096	882
Total	19,578 £23,658	21,418 £30,905	14.369 £30,761	5,685 £16,068	2,052 £7,400

The fluctuating character of both imports and re-exports is a feature in the above figures, and is evidently due to the success or otherwise of the Cochin and Calicut crops, which furnish the largest supplies—*e.g.*, in the normal year of 1912 we imported 65,529 cwt. from all sources, whereas in 1913 imports fell to 39,275 cwt., rising to 63,605 cwt. in 1914. Re-exports were, of course, unfavourably affected by the war, particularly in 1917 and 1918, but in past normal years they fluctuated between 10,000 and 20,000 cwt.

A Grocers' Trade Board.

A notice in the "London Gazette" of March 9 states that a Draft Special Order has been made applying the Trade Boards Acts, 1909 and 1918, to the grocery and provisions trade. The importance of the Order lies in the fact that it has been found possible to make one for the grocery trade apart from general distributive businesses. The Order has two schedules of articles as follows:

Schedule I.

Sugar, tea, coffee, cocoa, biscuits, dried fruits, jam, marmalade, spices or condiments, oatmeal or rolled oats, rice, tapioca, bacon, cheese, butter, margarine, lard, tinned, potted, or bottled foods, burning oil, matches, floor or metal polishes, candles, soap, washing soda or starch.

Schedule II.

Sugar, tea, coffee, cocoa, biscuits, dried fruits, jam, marmalade, spices or condiments, rice, tapioca, bacon, cheese, butter, margarine, lard, tinned, potted, or bottled foods, eggs, matches, candles, soap.

The grocery and provisions trade is defined as:

1. The retail sale of any of the articles specified in Schedule I. in or in connection with any establishment or business or branch or department in which:

(*a*) twelve or more of such articles are sold or exposed for sale, whether or not the sale of such articles is the main business in the establishment or business or branch or department; or

(*b*) the retail sale of any one or more of such articles is the main or principal business of that establishment or business or branch or department.

2. The wholesale sale (except when incidental to manufacture or production) of any of the articles specified in Schedule II. in or in connection with any establishment or business or branch or department in which such sale is the main or principal business of that establishment, business, branch, or department.

3. The sale of other goods when any such sale is carried on in association with the sales specified in paragraph 1 or paragraph 2 above if such sale involves the employment of workers who are also employed in those sales; *including* the following or similar operations when incidental to or carried on in conjunction with the sales specified in 1, 2 or 3 above:

(i) checking, testing, grading; (ii) weighing, measuring; (iii) packeting, boxing, bundling, bagging, parcelling, packing, unpacking, labelling; (iv) collecting, despatching, delivering; (v) stock-keeping, warehousing, storing, cold storing, refrigerating; (vi) portering, loading, unloading, lift or hoist operating; (vii) timekeeping, cleaning premises; (viii) adjusting implements, cleaning implements, utensils or receptacles; (ix) cleaning goods; (x) window or showcase dressing; (xi) garaging, horse or motor keeping, cleaning vehicles; (xii) mixing, blending, crushing, grinding, mincing, shredding, cutting; (xiii) sausage making, bacon processing, ham processing, ham boiling, ham or bacon curing; (xiv) roasting coffee, blanching almonds; (xv) cooking, preparing or serving food or drink for consumption by the public on or off the premises by workers principally engaged in the sales specified in 1, 2, or 3 above; (xvi) clerical work, commercial travelling, or canvassing.

There are also exceptions, such as operations performed at docks, which it is not necessary to specify here. It seems to show that it would be possible to make a similar Order for the drug-trade.

Qualification by Purchase.

Six of the retiring councillors of the Pharmaceutical Society of Great Britain were not only in favour of admission to the Register of Chemists and Druggists by purchase, but used questionable tactics to force their view on the drug trade. These men, who so lightly regard the principles of pharmaceutical qualification, should not again be allowed the opportunity of making mischief. One of the six has already made a tactful retreat, and probably others will see the wisdom of withdrawing rather than being pushed out. It will not be known until next Council meeting how many have decided to stand, but it is necessary to see that plenty of good men are nominated. The last day for receiving nominations is March 18, and already fifteen nominations have been received, including, one report adds, the five unrepentant councillors. It is desirable that a solid block of progressive candidates should be formed, so that the members may have the opportunity of registering their wishes which was denied them at the Central Hall general meeting last year.

Popularising Insecticides.

We called attention some time ago (*C. & D.*, II., 1915, p. 528) to the issue of a series of "economic pamphlets" by order of the Trustees of the British Museum. Several of these pamphlets, all of which relate to subjects of practical interest, have now been published; and a further step has recently been taken in public instruction in these matters by the preparation of posters, some of which have made their appearance in London suburbs. The posters are sent out from the Natural History Department of the British Museum, South Kensington; but, for the benefit of chemists who are likely to be asked for any of the preparations mentioned in them, we may briefly summarise the recipes given in those posters that have come to our notice. For mosquitoes and sandflies, the following are recommended: (1) "Eucarcit"—Eucalyptus oil, 2 oz.; liquid carbolic acid, 4 drops; citronella oil, 2 oz. (2) Preparation recommended by Professor Howlett—Oil of cassia, 1 oz.; brown oil of camphor, 2 oz.; vaseline, lanolin, or salad oil, 3 oz. (3) Paraquit (in tubes). (4) Amerind (in tubes). (5) Parasitox (in sticks). (6) Oil of peppermint, 1 oz.; vaseline, spirit, or Pond's Extract, 2 oz.; oil of cassia, 1 oz. Keating's Powder and cresol are recommended for fumigating. For dealing with flies, the following suggestions, among others, are made: (1) Fly-papers—Castor oil, 4 fl. oz.; crushed resin, 9½ oz. (or linseed oil, 4 fl. oz.; crushed resin, 7½ oz.). (2) Darken all windows except one, dusting that one with Keating's Powder. (3) Formalin trap in a specially arranged bottle—Lime water, ½ pint; formalin, one tablespoonful; sugar, one dessertspoonful; water to 1 pint. (4) "Eucarcit." (5) Professor Howlett's preparation. The poster concerning lice mentions: (1) Light oils, such as kerosene or petrol. (2) Lysol or cresol soap solution (soft soap), 1½ lb.; water, 10 gal.; Jeyes' Fluid, 1½ oz. (3) Naphthalene, preferably crude. It remains to be seen to what extent these suggestions will be acted upon by the public.

The Dutch Opium Law.

The following stipulations, which were given effect in the Dutch Opium Law of October 4, 1919, apply to opium, all its derivatives (including crude opium, prepared opium, medicinal opium, morphine, heroin, etc.) and cocaine: *Article* 1.—It is prohibited (A) to prepare, work with, transport, sell, dispense, or to have in stock for selling or dispensing, the above-mentioned substances within the Kingdom in Europe. (B) To import the above-mentioned substances, or (C) to export them. *Article* 2.—(A) The prohibitions mentioned above do not apply to (i) pharmacists and physicians, authorised to dispense medicaments, who import, transport, work or make preparations of the above-mentioned substances in order to sell or dispense them as medicine, provided that they comply with the law regulating the practice of pharmacy; (ii) to veterinarians who sell or dispense the substances as medicaments for cattle, provided they comply with the law regulating veterinary practice; (iii) to those persons who have obtained written authority from the Minister of Labour to stock for selling or dispensing the above-mentioned substances; (iv) to those persons who have obtained written authority from the Minister of Labour permitting them to prepare the above-mentioned substances, or medicinal preparations thereof, in strictly defined localities; (v) to those persons who wish to make use of the substances strictly for scientific purposes or demonstrations, and have obtained the necessary permission; (vi) to those persons who transport the substances, provided that they comply with the stipulations that will be made with regard to this transport trade. (B) The licence, mentioned above under provision (iii), is granted to those who can prove that he carries on a wholesale trade only in medicaments or similar substances. (C) The licence mentioned under provision (iv) is granted to those who can prove that they prepare medicaments in bulk. (D) The licence mentioned under provision (v) is accorded to those who can prove that they will make use of the licence only for scientific purposes or demonstrations. (E) In accordance with the above-mentioned licences, the Minister of Labour mentions the conditions necessary to comply with the stipulations of the Opium Convention and to assure the observance of the stipulations of this opium law. (F) Permission to export into countries where the entry of the substances concerned is prohibited is not granted unless the person concerned can prove that the substances are destined for persons or institutions authorised by their Governments to receive the substances concerned. (G) The licence granted according to these articles may at any time be withdrawn. (H) This withdrawal takes place according to a ministerial decree, in which the reasons are mentioned, a certain time-limit being determined during which the wholesale dealer or manufacturer can rid himself of his stocks before the withdrawal of his licence. (I) A new licence may be refused to persons whose licence has been withdrawn. *Article* 3.—Proceedings may be taken against offenders of this law by officials of the State Public Health Service, Excise officers, the Police, and certain other persons. *Article* 4.—(A) The persons mentioned in Article 3 are at any time authorised to claim the surrender of everything of value in proving the offence against the law. (B) They may at any time enter (i) vehicles and vessels which they know or suspect are used in unlawfully importing or transporting the forbidden substances; (ii) the places where an offence against this law is committed, or where they suspect that such an offence is committed; (iii) in case admittance is refused, they can force their way in, if necessary, with the help of the police; (iv) in places which are at the same time habitations, or are only accessible through habitations, they are forbidden to enter against the will of the inhabitant, unless they can show a search warrant signed by the burgomaster or of the cantonal judge; (v) they must draw up an official report of their entry into these suspected places, and a copy must be remitted within twenty-four hours to the tenant. *Article* 5.—(A) Offences against Article 1 are punishable by terms of imprisonment not exceeding three months, or by a maximum fine of one thousand florins. (B) The confiscated substances are forfeited. (C) Where the offence against the law is repeated within two years the offender is liable to six months' imprisonment or a penalty not exceeding three thousand florins. (D) The forfeited substances can only be sold to persons mentioned in Article 2 (A) (i) and (v), or they are destroyed. *Article* 6.—(A) An offence against this law is a "misdemeanour" (the Dutch word *misdrijf* implies something more serious than a simple offence against the law, which is termed *overtreding*). (B) The penalties mentioned in the laws on import duties and excise are not valid where infringements of this law are concerned. *Article* 7.—This law may be described as "The Opium law," but the year and issue of the "Staatsblad" in which it is published must also be mentioned. *Article* 8.—The law will come into force on a date to be fixed later.

Chemical Society.

At the meeting of the Chemical Society, held at Burlington House, London, W., on March 4, Sir James Dobbie, F.R.S., in the chair, Professor M. Chikashigo, of the Imperial University of Kioto, read a paper on *Ancient Oriental Chemistry and its Allied Arts.* The transmutation of base metals into gold, and the search for the elixir of life, as in the West, also formed the subject of research by the alchemists of China and Japan, and cinnabar was one of the substances which was greatly in use for various purposes. Professor Chikashigo dwelt particularly on the manufacture of bronze, of which there were four different kinds. In spite of the absence of accurate methods of research, they had already at an early date succeeded in discovering the right proportions of copper and tin to yield fine bronzes. It was interesting to note that the older bronzes were much purer in their composition than those of later manufacture, and the ancient bronzes had by reason of their freedom from surrogates, such as lead, remained unaltered until the present day. The whiter kinds of bronze were used for mirrors. *The Effect of Heating on the Absorptive Power of Sugar-charcoal for Sulphur Dioxide* was the subject of the paper read by Professor H. B. Baker (with R. M. Winter). The Germans had found that the first British anti-gas mask introduced could be penetrated by the addition of xylyl bromide to the gas they used, and this led to the introduction of the box-respirator containing charcoal. As about 15 tons of animal charcoal were required weekly for these respirators, and this amount was not available, experiments were undertaken to increase the absorptive power of wood-charcoal by heating it and then cooling, and repeating this operation several times. It was found that the absorptive power of the charcoal increased according to the length of time that it was heated. The observation was made that on heating the specific gravity of the charcoal increased, while its bulk gravity decreased. This point formed also the subject of the paper presented by Professor J. C. Philip (with S. Dunnil and Miss O. Workman) on *The Activation of Wood-charcoal by Heating.* It was found that with the decrease in the bulk density consequent on prolonged heating to a temperature of about 850° the absorptive power for sulphur dioxide, and also for carbon dioxide, increased. Experiments undertaken with a solution of methylene blue showed the same behaviour, and it was found that the temperature which causes the activation lies about 800°, and that the absorptive power increases with the length of the heating to which it is subjected. It was also found that the absorptive power of animal charcoal was increased on heating. It was mentioned that the Germans treated wood-charcoal with zinc chloride as a means of increasing its absorptive power.

The next meeting will take place on March 18.

Mr. Frederic Craven, chemist and druggist, Micklegate, Pontefract, who died on December 19, has left property of the value of 1,732*l.* 13*s.* 6*d.*

Associations' Winter Session.

Aberdeen.—The eighty-second annual meeting of the Aberdeen Pharmaceutical Association was held in Robert Gordon's Technical College on March 3, Mr. W. F. Hay (President) in the chair. The report and balance-sheets for the year were submitted and approved. The following officers were elected: *President*, Mr. W. F. Hay; *Vice-President*, Mr. M. K. Watt; *Treasurer*, Mr. Wm. Reid; *Secretary*, Mr. H. M. Dugan; *Auditor*, Mr. A. F. Dugan; Messrs. Giles and Simpson were appointed to act on the executive. The Education, Business Interests, Insurance, and Entertainments Committee were gone over, and various changes made in the *personnel*. Mr. Andrew Craig having through illness resigned his position as divisional secretary for the northern division of the city, Mr. Charles Simpson was unanimously appointed. The annual subscription will be raised to 10s. Mr. Harvey G. Kay (Davidson & Kay) has intimated his intention of presenting the Association with bound volumes of The Chemist and Druggist and the "Pharmaceutical Journal" dating back some forty years. The gift is much appreciated. A grant of 9*l*. was approved for prizes to students at the evening classes during next winter session.

Birmingham.—The Birmingham Pharmaceutical Association met on February 25, when a lecture was delivered by Mr. W. H. Wynn, M.D., upon *The Problem of Consumption*, the chair being taken by Mr. J. W. Atkinson (Vice-President). The attendance numbered about one hundred. Dr. Wynn is an authority on this disease, and his lecture, fully illustrated by lantern slides, was listened to with great appreciation. He dealt with the antiquity of consumption, the different forms of disease caused by the action of the bacillus on different parts of the body, the peculiar susceptibility of children, the almost universal presence of some amount of affection in a dormant state in the lungs, the causes of such assuming an active condition, the general course of the disease, the principles and method of treatment and the danger to the community, and desirable means of combating the disease.—On March 3 a lecture on *The Spectrum and its Teaching* was given by Mr. W. Marsh Hampton, B.Sc. Mr. H. O. Lloyd (President) occupied the chair. The lecturer dealt with the subject generally, and particularly in relation to its use in the examination of glasses, clays, and metallic oxides. The lecture was illustrated by lantern slides, and the audience had an opportunity of examining by means of a spectroscope the effect on the visible spectrum of the intervention of different kinds of glass.

Bournemouth.—The Bournemouth Pharmaceutical Association held a meeting on March 5, Mr. H. J. Martin (President) in the chair, at which Dr. J. Stanley White gave his lecture on *Organo-therapeutics and the Manufacture of Biological Products*, illustrated by lantern slides. At the close of the lecture several questions were answered by the speaker.

Brighton.—Brighton pharmacists are taking a keen interest in the progress of the students at the Technical College. Under the auspices of the Brighton and Hove Association of Pharmacy, a half-term examination was conducted during the past week. A very excellent "board" was got together by the secretary of the Association, and the examination was conducted on quite the orthodox lines. The members of the examining board were Messrs. Cripps, Blamey, Gwatkin, Hockin, Edgar Jones, Padwick, Perkins, Plowright, and Savage. Honours were taken by one of the lady students. The examination showed good progress had been made by the students generally. A few "bloomers" were committed—for example, a blister, for the ear, measuring 6 inches in length was made! Mr. Mackie, the pharmacy demonstrator, arranged all the details for working the examination in excellent style. The manufacture of sp. ammon. co., sp. æth. nit., and B.P. preparations of that kind was tackled in a workmanlike manner, and Mr. Mackie had reason to be proud of his students. As a mark of their appreciation, these budding pharmacists have invited the members of the "examination board" to a whist-drive.

Essex.—A committee-meeting of the Essex County Association took place on February 24, Mr. Nicholls in the chair. The subject of federation was fully discussed, and it was decided to send representatives to the meeting of the East Anglian Federation, and that if vacancies on the Council were available Mr. Nicholls and the secretary should be nominated. Unremunerative proprietary articles were severely criticised, and it was decided to protest against any surcharge. It was recommended that action be taken jointly by wholesalers and retailers to bring pressure upon the manufacturers to give a larger percentage of profit.

Great Yarmouth.—The monthly meeting of the Great Yarmouth Pharmaceutical Association was held on March 3, the President (Mr. P. R. Hill) in the chair. A discussion took place on the advisability of forming a union of master pharmacists, but until the result of the test case is known no action is to be taken. A resolution was passed asking the Local Associations Executive to take any necessary steps immediately the decision has been obtained. The question of unremunerative proprietary articles was considered, and it was decided to write to fifteen firms pressing for better terms on their goods. Messrs. T. B. Male and H. Palmer were elected to represent the Association at the Cambridge Federation meeting.

Lancaster.—The Lancaster Pharmacists' Association held a meeting at Morecambe on February 3, Mr. H. Troughton (President) in the chair. The secretary read a letter from Mr. Richard T. Simpson, North Road, Lancaster, strongly in favour of a trade union composed of master pharmacists, because retailers are being squeezed by the wholesalers and manufacturers. Letters were read from the Southport Pharmacists' Association and from Mr. Mallinson, secretary of the Local Associations Executive, on this subject. It was then decided to form a Master Pharmacists' Association and to leave this business over for their consideration. The annual meeting was fixed for April 21 at Lancaster. After an adjournment for tea, during which ladies joined the party, the master pharmacists met, and passed a resolution that the master pharmacists of Lancaster viewed with apprehension the tendency on the part of manufacturers and wholesalers to pass every selling expense on to the retailer, and urged the early formation of a registered trade union of master pharmacists to protect their trade interests. Another resolution was passed expressing the opinion that the L.A.E. should not wait for the result of any test case, but should at once proceed with the formation of a trade union for master pharmacists. Copies of this resolution will be sent to the Southport Pharmacists' Association and the L.A.E.

London (E.).—The monthly meeting of the London (East) Pharmacists' Association was held at Walker's Restaurant, Stepney, London, on March 4, the President (Mr. A. R. Keith) in the chair. Mr. G. A. Tocher and the chairman explained the new Insurance Regulations for the County of London, and these were considered satisfactory. Letters from the Wigan and Southport Associations and the Local Associations Executive regarding the formation of a trade union for master pharmacists were discussed. The meeting agreed to reply to Southport supporting the proposal.

London (N.).—The monthly meeting of the North London Pharmaceutical Association was held on March 9, the President (Mr. Andrew) in the chair. The secretary reported on the rota system, early closing, the annual meeting, the proposed trade union, and a resolution from London County on the effect of the executive decision on the candidates. The Association decided that it could not proceed to tie its hands unless it knew who the candidates were and the nature of their professions with regard to several vital matters. Mr. John Noble was called upon to give his paper on *Pharmacy Hints*, which included the preparation of dill-water; cinnamon and quinine; lin. terebinthinæ; renovation of age-

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stricken capsules; the employment of tincture of senega for ext. male fern; the provision of temporary bougie moulds; the emulsifying capacity of borax; carbolic oil from mineral oil, which for invariable success needs a certain amount of olive oil; the addition of coconut oil to mineral oil in the preparation of lime cream; iodoform ointment and the need of a petroleum base; and hyd. c. creta, as quoted by Mr. Boa at the Edinburgh meeting (*C. & D.*, February 28, p. 93).

Public Analysts.—The Society of Public Analysts held a meeting on March 3 at the Chemical Society's Rooms, Burlington House, London, Mr. Alfred Smetham (President) in the chair. A paper was read on *The Detection of Finger-prints on Documents* by Mr. C. A. Mitchell. The author pointed out the persistence of finger-prints, illustrating with specimens fifty-six years old. He discussed various methods of detecting finger-prints on documents, by means of mechanical methods, dyes, ink, chemical reagents, iodine vapour, etc. He then went on to discuss the persistence of stains on paper, including blood finger-prints, and closed with a full bibliography of the subject. Mr. T. J. Ward read the next paper, on *Photo-micrography with Simple Apparatus.* The author gave some simple methods for the production of low-power photo-micrographs, together with a demonstration of his apparatus for magnifications not exceeding × 40, and descriptions of methods of illuminations employed. Lantern-slides were exhibited illustrating results obtained. *A Note on the Solubilities of Theobromine*, by Mr. R. V. Wadsworth, followed. The solubility of theobromine in most of the commoner solvents was re-determined by the author. The figures obtained were compared with those given by a number of authorities, the difference being found to be very great in some cases.

Salford.—A special meeting of the Salford Pharmaceutical Association was held on February 26, when a lantern lecture on *Organo-therapeutics and the Manufacture and Composition of Biological Products* was given by Dr. J. Stanley White (Parke, Davis & Co.). There was a large attendance, and some medical men were present. The lecture provided much that was of interest, and Dr. White answered many questions.

Southend-on-Sea.—The annual meeting of the Southend-on-Sea Association of Pharmacists was held on March 3, Mr. R. H. Shields in the chair. The retiring officers were re-elected *en bloc*, with the exception of Mr. Wilson, who regretted his inability to continue on the committee. Mr. J. J. Gilmour was thereupon elected. It was resolved that the services of Mr. W. S. Jerome as honorary solicitor be gratefully acknowledged, as well as his offer to continue in that office. Mr. Hill presented his financial statement, showing a deficit of 1*l.* 4*s.* 7*d.*, and recommended, in view of the increasing expenses of administration and the fact that a levy of 2*s.* per head of membership would have to be paid to the East Anglia Federation, raising the subscription to at least 7*s.* 6*d.* This was carried unanimously, and the report was formally adopted. Mr. F. H. King presented his report on behalf of the Dinner Committee, and handed over a balance of 10*s.* 7*d.* to the Association funds. The secretary reported as to correspondence in which he had been engaged with the William Browning Co., Ltd., *re* lecture on *Paraffins*; Parke, Davis & Co., *re* lecture by Dr. J. S. White on *Biological Products* and *Hormone Therapy*; Hedley & Co., *re* lecture and demonstration on *Ethyl Chloride.* He explained that he was endeavouring to arrange joint meetings with the local branch of the British Medical Association. The Association then resolved that until the result of the test case is known, no action should be taken in the formation of a trade union of master pharmacists. The proposed surcharge of 2 per cent. on patents yielding less than 12 per cent. profit was supported in view of the effect it would be likely to produce on chemists in general, and it was thought that such an imposition would ultimately lead to a universal boycott of such preparations. The Benevolent Fund boxes were opened, and the sum of 12*s.* 10*d.* remitted to the Pharmaceutical Society.

Southampton.—A lecture by Dr. J. Stanley White (Parke, Davis & Co.) was delivered before the Southampton Pharmacists' Association on March 4 at Lowman's Restaurant, on *The Manufacture and Composition of Biological Products.* Parke, Davis & Co. were thanked by Mr. H. W. Pratt and Mr. F. B. Wride (secretary) for giving the Southampton Pharmacists' Association the opportunity of hearing this lecture.—The last of a series of whist-drives was held by the Association on February 18 at Lowman's Restaurant, and a large number of pharmacists and their friends were present.

Thames Valley.—A general meeting of the Thames Valley Pharmacists' Association was held at Kingston-on-Thames on March 3, the President, Mr. F. J. Plomley (Kingston), in the chair. The secretary, Mr. W. H. Peake (Twickenham), reported the result of the Council election of the Proprietary Articles Trade Association and an account of the expenditure incurred in the candidature of Mr. Alfred Higgs, J.P. (Kingston-on-Thames). The new Insurance Dispensing terms were explained for Middlesex by Mr. H. E. Clement (Hampton Hill), and by Mr. Higgs for Surrey. A letter was read from Mr. Tims (Cobham), representative of the Association on the Surrey Pharmaceutical Committee, saying that the hours arranged for the county of Surrey were the best in England. The Early Closing Bill was considered, and it was decided to write to the members of Parliament for the various districts asking them to support the second reading, which had been put down for March 19. The proposed new Profiteering Act was also considered. Mr. Higgs replied to questions on the working of the present Act. Mr. Cherry (Walton-on-Thames) gave a lucid account of the interview with Mr. McCurdy recently, who said the Government was not likely to add "luxury" articles, such as toilet specialities, to the schedules. Unremunerative proprietary articles were considered, and it was arranged that, if those articles, not on the P.A.T.A. list, do not show sufficient profit through the usual wholesale houses, the Association should buy direct and distribute them among the members Mr. Cherry spoke on the proposed Pharmacists' Employers' Union, advocating waiting until the High Court case has been heard. It was decided to have a motor trip during the summer.

East Anglia Federation.

The first meeting of the East Anglia Federation of Pharmaceutical Associations under its new and enlarged constitution was held in the Lion Hotel, Cambridge, on March 4, when the President, Mr. C. Smalley, Ipswich, presided over a large attendance of members. The treasurer's report showed a balance in hand of 10*l.* 16*s.* 11*d.*, and the secretary gave a brief report of the work done during the past year. Both reports were unanimously adopted. The President then gave his address, in the course of which he said it might be well for them to see what the federation meant to them, what they expected from it, and also what they must not expect from it. Quite a lot of people seemed to think that the federation was going to smooth away a great many difficulties, without thinking how far they wanted it to apply. Let them consider their position as regarded their businesses, and realise what was impossible. They had all met the type of individual who seemed to think his subscription to the Pharmaceutical Society, coupled with his passing of the Qualifying examination, ought to ensure him a "fat" annuity for life, and was inclined to blame any trade organisation there might be for poor profits. Such an individual indulged in a general tirade against company pharmacy, multiple shops, and all that grocers and hairdressers might be selling which he thought ought to be his special prerogative. Let them consider the average run of the chemist's shop to-day, and think what a general store it happened to be. One man did a business in cameras and photographic chemicals, and they would find those goods in juxtaposition with cough-lozenges, perfumes, hair-wash, corn-paint, and possibly furniture-cream and boot-polish. Another man added stationery to his business, possibly tobacco; another oils, paint, colours, household brushes, etc.; another, dissatisfied

with retail returns, added a wholesale side to his business. Of course they were all legitimate, and that brought them to one great point they were so often content to ignore. It was impossible for a federation to restrict to any degree the normal activities of enterprise seeking some fresh channel for expansion or fresh employment for capital. Therefore, when they spoke of protecting their interests, they must not forget relatively they were only referring to a part of their general business interests—the purely pharmaceutical part, which would naturally include associated medical supplies and patent medicines, business to which by long custom they had a right, but at present no prescriptive title. In some respects they could protect certain profits from proprietary articles by arrangement with the proprietors, and on drugs by arrangement between themselves, and in each of those cases organisation could and did do a lot. So much they already had proved for themselves, and the stronger and larger the organisation, the more appreciable the help possible. In that sense of business protection, and also the covering of general business risks, a federation representing a large number of chemists was the best defence they could have. It was largely due to the Government attitude with regard to the principle of trade unionism in the matter of Industrial Councils that they found such rapid extension of their federations taking place in the world of pharmacy, which federations were being generally approved by the Society. When the federations were in definite shape, and their trade union complete, they would be in the position of having what they had never had before—the power to speak to a Government as a full representative body. They wanted the Government to lay it down as a basic principle that no person shall carry on a shop or be in charge of a dispensary for the sale, compounding, or dispensing of drugs and medicines unless they hold the qualifying certificate of the Pharmaceutical Society. But they must remember there were to be considered (1) existing vested interests, with which they would include the attitude of the doctors; (2) their own conditions; and (3) possible reconstruction, by the Ministry of Health. A Government bringing in a Bill to give them what they required would have to face opposition from existing unqualified drug-store proprietors, the holders of apothecaries' certificates, and a certain section of medical men. They would have to see that their own establishments are put into thorough order, and entirely abolish prescribing. It seemed probable that a Ministry of Health reconstructing the medical services would be bound to take in hand pharmacy, and possibly take over the powers of their Society as regarded examinations and the administrative powers with regard to the sale of poisons. Those were contingencies to be considered seriously by every pharmacist, and the future called for the best brains of the pharmaceutical body if it was to come through not only without loss of prestige, but with the interests of its members fully protected. The next consideration was, how must a federation work to get the whole-hearted support of its members? He would like to express the hope that the methods of their old federation in holding meetings in different parts of the area and stimulating the local association to rally as many men to the meeting as possible might be continued with advantage. Another suggestion was that a federation might get chemists to run a series of Codex remedies, packed ready for handing over the counter, instead of imitating so closely the patent-medicine proprietors in their methods and labels. He was inclined to suggest that these take the place of counter-prescribing, and if their adoption were suggested and their formulas considered by a joint committee of doctors and chemists it would probably meet with medical approval and remove once for all a long-standing grievance. There was a certain amount of business which the chemist was properly entitled to, and he would welcome something standard which he could hand over to the public. They must bear in mind that any direct recognition given to them as dispensers of medicine would logically rule out dispensing by doctors. With regard to legislation generally, they had to remember that it was the welfare of the community that had to be considered, and it was only a strongly organised body that could so handle matters that its own interests did not suffer. They had proved conclusively the value of federation, and he felt that, rightly used, their larger federation would prove a big power in the world of pharmacy. Mr. Body, in moving a vote of thanks to the President, said the medical profession are coming into a tide of prosperity financially, and where formerly the medical practitioner more or less existed on a professional pittance, he was going to be a prosperous member of society, and was going to take quite a different outlook in the future. He felt certain that the medical man who was prospering under the Insurance Act was not going to bother about a dispensary, and thought the pharmacist's prosperity very largely turned on that economic point. With regard to Codex remedies, he did not think there was anyone in that room but deprecated indiscriminate dispensing. Mr. Mallinson then gave a short address, in which he outlined the new scheme of territorial grouping. Officers for the ensuing year were elected as follows: *President*, Mr. Percy Robinson, Norwich; *Vice-Presidents*, Mr. C. Smalley and Mr. England (Romford); *Treasurer*, Mr. J. W. Bodger (Peterborough); *Secretary*, Mr. S. G. Tydeman (Essex); *Committee*, Messrs. Body (Southend), Wiggin (Ipswich), S. F. Barker (Cambridge), S. T. Millbank (Bishops Stortford), T. L. Nicholls (Chelmsford), C. Hamson (Peterborough), and A. E. Beeston (Norwich). With regard to the addition of 1½ per cent. to the cost of proprietary articles, the new President said he believed at the present moment the wholesalers were withdrawing the 1½ per cent. surcharge and substituting something else, which they hoped might be acceptable to them. He therefore thought they might pass over the matter meantime. The secretary reported the receipt of a protest from Yarmouth. Mr. Body said he thought it was mooted that 2 per cent. be added to proprietary articles yielding a profit of not more than 12 per cent. They were opposed to the principle of surcharging in order to recover carriage, but the question of adding 2 per cent. on such articles meant that they would have to be very conspicuously indicated to the trade, and he sincerely hoped they would "ginger up" the federations throughout the country to boycott those preparations. If it was possible, he would like to propose a resolution that they support with that object the resolution from Yarmouth. Mr. Smalley, who seconded, said possibly some good might come out of that irritation. Certainly, he thought the action of wholesalers in surcharging invoices as they did was distinctly unwarranted. The resolution was carried. Alderman A. S. Campkin (Cambridge) said that years and years before any organisation was evolved he had suggested it on the very lines that had been proposed to-day. They must make their organisation such that they could confidently appeal to the whole of the qualified men throughout the length and breadth of the country.

Sierra Leone Kola.—In the last issued report of the Colonial Office in Sierra Leone, it is stated that the exports of kola during 1917 showed a decrease in quantity of 782 tons, but an increase in value of 18,407*l.*, compared with the figures for the preceding year. The decrease in the quantity exported was due entirely to the poorness of the 1917 crop. The total exports amounted to 1,702 tons, valued at 321,127*l.* The trade, which is mostly in the hands of Syrians, is confined almost entirely to other West African countries north of Sierra Leone.

German Potash Salts.—The Kali Syndicate states that the total output of potassium salts for 1919 amounted to 860,000 tons (calculated as K_2O), of which 620,000 tons was delivered to home consumers. The total output for the previous years was: In 1913, 1,110,000 tons; in 1914, 904,000 tons; 1915, 680,000 tons; 1916, 884,000 tons; later data are not available. The total requirements for the home market amount to 1,500,000 tons (calculated as K_2O), so that the Syndicate can supply only a little over a third of the amount required. Orders from abroad aggregate at least the same amount, and the Syndicate is compelled to refuse large foreign orders.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Inquiries about Panel Practitioners.

A public inquiry was held on March 3, under Part VI. of the National Health Insurance (Medical Benefit) Regulations (England), 1913, at the Education Offices, Chapel Street, Salford, to investigate representations made by the Salford Health Insurance Committee against Dr. Benjamin Herald, Trafford Road, Salford. The Inquiry Committee was composed of Mr. H. R. P. Gamon, barrister-at-law, Dr. T. A. Goodfellow, and Dr. John Russell. The local Committee alleged that—(1) Dr. Herald on divers dates during August and September 1917 signed and issued certificates to the effect that he had examined an insured person, now deceased, whereas on these dates he did not examine the patient; (2) he endeavoured unduly to influence an insured person in the choice of chemist; (3) that he was guilty of neglect in failing to visit an insured person after his first visit. Dr. Eastham represented the Salford Insurance Committee, and Mr. H. Faulkner Simpson appeared on behalf of Dr. Herald. A number of people were present, including several doctors and members of the Insurance Committee. Under the second charge a man named Howard was given two prescriptions, one for ointment, and the other an extensive one for gauze, bandages, cotton-wool and lint. The doctor told the patient to take the small one to Oliver's chemist's shop (a branch of Needhams, Ltd.), and the large one to Boots, Ltd. That was not fair to the chemists of the panel; it was most improper. The chairman of the Inquiry Committee asked if there was any rule against this, and Dr. Eastham replied that, though there was no rule, it was not done as a matter of professional etiquette. Outlining the outstanding features of the last case, Dr. Eastham said Dr. Herald was called to see Gardner, and he prescribed for him. Later the mother of the patient visited the doctor, and told him the patient was no better. Dr. Herald then gave the mother a prescription without seeing the youth. This, said Dr. Eastham, was reducing the practice and art of medicine to the level of a dispensing chemist. Mervyn V. Harvey, chemist and druggist, who was formerly the manager of Oliver's establishment in Tatton Street, Salford, said on July 23, 1918, F. Howard called at the shop and handed to him the larger of the two prescriptions. He then handed up the smaller one, and asked for the other back. Witness told the man that he could make up both, and the man replied that Dr. Herald had told him to take the larger one to Boots, Ltd., and to get the ointment only at witness's shop. In his evidence Dr. Herald said, referring to the second charge, when patients asked him, as they did almost every day, which chemist to go to, he always told them to please themselves. In the case in question he was treating the man at his surgery, and also the man was treating himself at home, and he did not want him to mix up the stuff. Witness further said that when he came to Salford he found his predecessor had been dealing at Oliver's, although he himself had always patronised Boots. Mr. Faulkner Simpson, in his speech to the Commissioners, said he would suggest that the offences committed were merely of a technical character. They were not sufficient to stand by themselves, for they were reported immediately they occurred, but no action was taken until all of them were accumulated. The findings of the Committee will be promulgated.

With regard to the representations made by the Middlesex Insurance Committee against Dr. R. W. Baron, "Nevada," Dunstan Road, Golders Green, London, N.W. 2 (*C. & D.*, January 10, p. 65), in view of the terms of the report made by the Inquiry Committee, the Minister has decided to take no action in regard to the removal of the practitioner from the medical list, but to direct that he shall pay the Committee's costs of the proceedings. The report further states that as this is the second occasion on which the attention of the Department has been called to the deputising arrangements made between Dr. Baron and his brother, the Minister has decided to withhold the sum of 20*l.* from the Exchequer grant payable to the Committee in respect of the year 1919, and it is open to them to deduct a similar sum from Dr. R. W. Baron's remuneration.

Reports from Local Centres.

ENGLAND.

Essex.—A meeting of the Essex County Pharmaceutical Committee was held on February 24. The arrangements necessary under Article 9 of the new Medical Benefit Regulations were discussed, and it was decided to leave the matter in the hands of a sub-committee consisting of Messrs. England and Nicholls, with the secretary, but it was felt that the existing hours appeared to be sufficient for all the needs of the county. It was decided to ask the Insurance Committee to call the doctors' attention to the abolition of "Rep. Mist." as from April 1. Mr. Seed was nominated as a member of the Leyton Sub-Committee.

London.—A meeting of the Pharmaceutical Committee was held on March 9, Mr. A. J. Wing (chairman) in the chair. Regarding the issue of a revised edition of the London Insurance Pharmacopœia, the Committee decided not to contribute towards the cost of printing. The report of the Central Checking Bureau for December 1919 showed that the margin of error in pricing was 0.08*d.* The secretary reported, *inter alia*: (*a*) That the number of prescriptions dispensed in December 1919 was 365,804, at an average cost of 7.91*d.* (*b*) That the whole of the December balances and the January advances was paid by February 21. (*c*) That strong representations were being made by the Ministry of Health for the continuance of the issue of duplicate prescriptions. (*d*) That a letter of appreciation had been received from the London Insurance Committee for providing an adequate service in the Millwall district. (*e*) Particulars of method of payment for drugs and appliances to doctors. It is anticipated that, after the conference between the Pharmaceutical Committee and the Insurance Committee the scheme relating to hours of service will be approved by the Ministry of Health, and will come into force on April 1. Two complaints against chemists regarding delay and inaccurate dispensing were reported. These cases were adjourned. Another case was not substantiated. In a complaint regarding the quantity of cod-liver oil and malt supplied, the chemist stated that an assistant served the insured person. It was pointed out to the chemist that he was responsible. The Committee instructed the secretary to take up, with the Local Associations Executive, the question of quality of suspensory bandages to be supplied.

Southend-on-Sea.—A meeting of the Pharmaceutical Committee was held on March 3. The secretary reported that an agreement with regard to a service for Insurance dispensing has been arrived at. He submitted the draft letter which he proposed sending to the Insurance Committee, embodying terms of remuneration for urgent prescriptions, and the rota scheme. This was approved and adopted. The secretary also submitted the balance sheet, which was adopted, and he requested a similar grant for administrative expenses during the ensuing year. The checking report dated January 21 was confirmed.

Surrey.—A meeting of the Insurance Committee was held on February 25, when the reports of the various sub-committees were considered. The Selection Sub-Committee recommended that the Hours of Service Sub-Committee should include the following pharmacists: Messrs. W. H. Fowler, E. T. Neathercoat, and J. Noble. The Medical Benefit Sub-Committee reported that three chemists had resigned from the panel, and seven chemists had joined. Mr. E. T. Neathercoat has been appointed chairman of the County Pharmaceutical Committee, in place of Mr. Bowden, who has resigned. Deductions will be made from chemists' accounts for the Committee's administration expenses during 1920 at the rate of 2½ per cent., and these will be paid to the Council Pharmaceutical Committee. An estimate of the cost of checking pre-

scriptions during 1920 amounted to 75*l*. Chemists will be asked to state the names and qualifications of persons employed in the dispensing of Insurance prescriptions as sanctioned in the permissive clause of the new Regulations. The Finance and General Purposes Sub-Committee had considered that economy would result if advances to chemists were discontinued. The Pharmaceutical Committee, however, opposed the suggestion on the grounds that chemists' capital would be held up and that the conditions of the agreement would be infringed. The Pharmaceutical Committee, moreover, asked that the advance amount should be increased to 9*d*., in view of the increase of the dispensing-fee. Consideration of this has been deferred.

February Drug Tariff.

The following are the alterations for February in the Drug Tariff for England and Wales issued by the Ministry of Health:

Lower: Barbitonum, 3*s*. 2*d*. oz.; butyl-chloral hyd., 10*s*. 6*d*. oz.; calc lact., 13*s*. 4*d*. lb.; dec. sarsæ jam. co. (ex conc.), 8*s*. 6*d*. lb.; hydrarg. oxid. flav., 11*s*. 1b.; inf. valerian (ex conc.), 3*s*. 6*d*. lb.; liq. opii sed., B.P.C., 9*s*. 6*d*. lb.; menthol, 6*s*. 8*d*. oz.; methylsulphonal, 5*s*. 8*d*. oz.; phenolphthalein, 1*s*. 3*d*. oz.; pil. plumbi c. opio, gr. iv., 1.5*d*. doz.; pil. saponis co, gr. iv., 1.8*d*. doz.; pulv. tragac. co., 5*s*. 8*d*. lb.; zingiber jam. pulv., 2*s*. 6*d*. lb. Picric acid gauze, 26.0*d*. per package.

Higher: Acetanilidum, 5½*d*. oz.; acetum ipecac., 3*s*. 2*d* lb.; acetum scillæ, 9½*d*. lb; acid. acetic., 10½*d*. lb.; acid acetylsal., 8½*d*. oz.; acid. carbolic. (detached crystals), 2*s*. 5*d*. lb.; acid. carbolic. liq., 2*s*. 2*d*. lb.; acid. citric. pulv., 6*s*. lb.; acid. salicylic., 4*s*. 9*d*. lb.; acid. sulphuros., 5½*d*. lb.; acid. tannic., 17*s*. 3*d*. lb.; adeps præp., 3*s*. 3*d*. lb.; æther, B.P. (0.720), 3*s*. 8*d*. lb; ammon. brom., 6*s*. 2*d*. lb.; ammon. carb., 2*s*. 7*d*. lb.; bals. Peruv., 2*s*. 6*d*. oz.; borax pur. pulv. (14-lb. lots), 64*s*. cwt.; calc. carb. præcip., 40*s*. cwt.; conf. sennæ, 3*s*. 4*d* lb.; cret. præp., 6*d*. lb.; dec. senegæ (ex conc.), 11*s*. lb.; ext. cannab. ind. 17*s*. 3*d*. oz.; ext. ergotæ, 22*s*. oz.; ext. ergot. liq., 42*s* lb.; ferri et quin. cit., 2*s*. 2*d*. oz.; glycerinum, 1*s*. 10*d*. lb.; glycer. acid. boric., 3*s*. 7*d*; glycer. acid. carbol., 3*s*. 1*d*. lb; glycer. acid. tannic., 5*s*. 9*d*. lb.; glycer. belladon., B.P.C., 8*s*. 3*d*. lb.; glycer. boracis, 2*s*. 7*d*. lb.; glycer. pepsin., 8*s*. 1*d*. lb.; guaiacol carbonas, 3*s*. 4*d*. oz.; hexamina, 1*s*. 3*d*. oz.; hydrarg. perchlor. 10*s*. lb; inf. senegæ (ex conc.), 10*s*. lb.; lin. terebinthinæ, 4*s*. 6*d*. lb.; lin. tereb ac t., 6*s*. 2*d*. lb.; liq. ammon., 10*d*. lb.; liq. ammon. fort., 11*d*. lb; liq. arsenicalis, 11*d*. lb.; liq. formaldehyd., 3*s*. 1*d*. lb.; liq. hydrogen. perox., B.P., 9½*d*. lb.; liq. hydrogen. perox. (20 vols), 1*s*. 7*d*. lb.; liq. plumbi subacet. fort., 11*d*. lb.; liq. potassæ, 9½*d*. lb.; lith. cit. effervesc., 6*s*. 2*d*. lb.; magnesia levis, 2*s*. 7*d*. lb.; mag. carb. lev., 1*s*. 3*d*. lb.; methyl salicylas, 8*s*. 6*d*. lb.; mist. sennæ co., 1*s*. 5*d*. lb.; ol. amygdalæ, 5*s*. 5*d*. lb.; ol. morrhuæ (Norwegian opt.), 29*s*. gal.; ol. olivæ (sublime), 27*s*. 6*d*. gal.; ol santal, 5*s*. oz.; ol. tereb. rectif., 3*s*. 6*d*. lb.; oxymel scillæ, 1*s*. 6½*d*. lb.; paraff dur., 1*s*. 3*d*. lb.; paraff. mol. (alb.), 2*s*. 0½*d*. lb.; paraff. mol. (flav.), 1*s*. 2½*d*. lb.; phenazon., 2*s*. 4*d*. oz.; pil quin. sulph. gr. i., 2.3*d*. doz., ditto, gr. ii., 3.7*d*. doz.; pil. rhei co. gr. iv., 1.2*d*. doz.; podoph. res., 4*s*. 6*d*. oz.; pot. bicarb., 2*s*. 1*d*. lb.; pulv. glycyrrh. co., 1*s*. 11*d*. lb.; sacc. alb. pulv. subtil., 1*s*. 1½*d*.; salol, 9½*d*. oz.; sennæ fructus (picked finev.), 2*s*. 4*d*. lb.; sodii bicarb. (opt.), (28 lb. lots), 36*s*. cwt.; sodii bicarb., 5*s*. 6*d*. lb.; sodii chlor., 1*s*. lb.; sodii citro-tart. eff., 4*s*. lb.; sodii et pot. tart., 1*s*. 11*d*. lb.; sodii salicylas (cryst.), 7*s*. lb.; spt. æther. nitrosi, 6*s*. 7*d*. lb.; spt. rectificatus, 1*s*. 6*d*. pint; sulphonal, 6*s*. 2*d*. oz.; syrupus, 1*s*. 5*d*. lb.; syr. aurantii, 2*s*. 9*d*. lb.; syr. calc. lactophosph., 3*s*. 5*d*. lb.; syr. cascaræ aromat., 4*s*. 3*d*. lb.; syr. chloral, 3*s*. 8*d*. lb.; syr. codeinæ phosph., 4*s*. 9*d*. lb.; syr. ferri iod., 3*s*. 7*d*. lb.; syr. ferri phosph., 1*s*. 10*d*. lb.; syr. ferri phosph. co., B.P.C., 1*s*. 8*d*. lb.; syr. ferri phosph. c. quin. et strych., 3*s*. 1*d*. lb.; syr. glycerophosph. co., B.P.C., 3*s*. 7*d*. lb.; syr. hypophosph. co., B.P.C., 2*s*. 7*d*. lb.; syr. limonis, 2*s*. 3*d*. lb.; syr. pruni virg., 2*s*. 5*d*. lb.; syr. rhei, 2*s*. 11*d*. lb.; syr scillæ, 1*s*. 7*d*. lb.; syr. sennæ, 2*s*. 8*d*. lb.; syr. tolut., 1*s*. 10*d*. lb.; syr. zingib., 2*s*. 3*d*. lb.; tab. Easton. 1 dr., 2.9*d*., ditto ½ dr., 2.0*d*. doz.; terebenum, 6*s*. 2*d*. lb.; thymol, 4*s*. 9*d*. oz.; tr.-cannab. ind., 26*s*. 6*d*. lb; tr. gent. co., 4*s*. 2*d* lb.; tr. lavand. co., 8*s*. 6*d*. lb.; tragacanth. pulv., 25*s*. 9*d*. lb.; troch. acid. tannic., 3*s*. 7*d*. lb.; troch. pot. chlor. gr. 3, 3*s*. 7*d*. lb.; ung. ac. carbol., 2*s* 3*d*. lb.; ung. ac. salicyl., 2*s*. 8*d*. lb.; ung. chrysarobin., 3*s*. 5*d*. lb.; ung. gallæ c. opio, 8*s*. 3*d*. lb.; ung. glyc. plumbi subacet., 3*s*. 7*d*. lb.; ung. hydrarg., 6*s*. 9*d*. lb.; ung. hyd. ammon., 4*s*. 4*d*. lb.; ung hyd. nit., 5*s*. 4*d*. lb.; ung. hyd. nit. dil., 2*s*. 9*d*. lb.; ung. hyd, oxid. flav., 2*s*. 8*d*. lb.; ung. hyd. ox. rubr., 3*s*. 8*d*. lb.; ung. iodoformi, 7*s*. 9*d*. lb.; ung paraffin alb., 2*s*. 1*d*. lb.; ung. paraffin. flav., 1*s*. 6*d*. lb.; ung. picis liq, 3*s*. 3*d*. lb.; ung. plumbi iod., 6*s*. 5*d*. lb.; ung. resinæ, 3*s*. 11*d*. lb.; ung. staphisagriæ, 4*s*. 10*d*. lb.; zinci oxid., 1*s*. 5½*d*. lb. Lints: unmedicated, 1 oz., 4.8*d*.; boric, 1 oz., 3 1*d*, 2 oz, 5.8*d*., 4 oz., 10.8*d*., 8 oz., 21.0*d*., 1 lb., 39.0*d*. Oiled cambric, 36.0*d*. per sq. yard. Catheters, soft rubber (over 12), 13.0*d*.

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SCOTLAND.

Kirkcaldy.—The local doctors are to change their consulting-hours from 5.30 to 7 P.M. instead of 6.30 to 8 P.M. The earlier hours are now in operation in several parts of Fife.

Lanark.—At a meeting of the Lanarkshire Insurance Committee, held on February 26, it was stated that the chemists, who were paid in full for their prescriptions during 1918, now participated in the surplus, and, in terms of the arrangement made with them, would receive a bonus on their accounts of 13.7 per cent.

The following comparative statement for the whole of Scotland has been issued from the Central Checking Bureau by the National Health Insurance Drug Accounts Committee:

—	Forms Allowed	Total Value	Av. Price per Form
		£ s. d.	d.
1915 ...	2,220,219	90,182 10 3	9.74
1916 ...	1,938,523	80,451 11 4½	9.96
1917 ...	1,805,603	72,753 5 1½	9.67
1918 ...	2,001,296	95,848 9 8½	11.49
1919 ...	2,008,537	104,625 13 4½	12.50
Total...	9,974,178	£443,861 9 10	10.68

Scottish Drug Tariff.

In the new Scottish Drug Tariff recently published, the intermediate quantity pricing has been deleted, and only the price for grain, drachm, or ounce will in future be given. Liquid medicaments carry a 5*d*. dispensing-fee. Powders up to 2, 2½*d*.; 3 to 6, 4*d*.; 7 to 12, 5*d*.; and 3½*d*. for each doz. or part. Ointments, creams, pastes, and confections, all quantities, 5*d*. Pills, cachets, capsules, lozenges, and tablets, 1 to 6, 5*d*.; 7 to 24, 7½*d*.; then 2½*d*. doz. or part. Suppositories, pessaries, bougies, 1 to 6, 5*d*.; 7 to 12, 7½*d*.; then 7½*d*. doz. or part. Plasters, 7½*d*.; blisters, 5*d*. These are all dispensing-fees, and a fee is now paid on every prescription. From April 1 poison bottles are to be placed in the same category as medicine bottles. Subjoined are the chief price alterations according to Appendix I.:

Acetanilid., 8*d*. oz.; ac. acet. glac., 2*d*. oz.; ac. acetylsal., 1*s*. oz.; ac. carbol., 3*d*. oz.; ac. carbol. liq., 2½*d*. oz.; ac. salicyl., 5½*d*. oz.; ac. tann., 2*s*. 0½*d* oz.; am. brom., 7*d*. oz.; amyl. nit., 1*s*. 3½*d*. oz.; bals. Peru., 3*s*. 6*d*. oz.; barbitone, 4*s*. 5½*d*. oz.; but. chlor. hyd., 14*s*. 6½*d*. oz.; calc. glycerophn., 2*s*. 1½*d*. oz.; calc. lact., 1*s*. 6½*d*. oz.; conf. senna, 4*d*. oz.; cret. præp., 1*d*. oz.; dec. sarsæ co. conc., 8½*d*. oz.; digitalinum, 2*s*. 5½*d* gr; emp. calif. (calico), 5*d*. sq. ft.; ergotin., 32*s*. 2½*d*. oz.; ext. cannab. ind., 3*s*. 5½*d*. dr.; ext. ergot., 4*s*. 5*d*. dr.; ext. ergot. liq., 4*s* 11*d*. oz.; ferri quin. cit., 3*s*. 0½*d*. oz.; glyc. carbol., 4½*d*. oz.; glyc. pepsin., 8½*d*. oz; guaiacol carb., 4*s*. 8*d*. oz.; hexamina, 4*s*. 9*d* oz.; hyd. ox. flav., 1*s*. 3½*d*. oz.; hydrogen perox., 20 vol., 2*d*. oz.; inf. ergot., 3*d* oz.; lin. tereb. acet., 6½*d*. oz.; liq. ferri perch. fort., 1*d*. oz.; liq. formaldehyde, 3½*d*. oz.; mag. sulph. eff., 3½*d*. oz.; menthol, 9*s*. 4*d*. oz.; methyl sulphon., 7*s*. 11½*d*. oz.; ol. morrhuæ, 4*s* 10*d*. pint; ol. santal., 7*s*. oz.; ol. terebinth., 2*d*. oz.; oxymel scillæ, 2½*d*. oz.; phenazon., 3*s*. 3½*d*. oz.; phenolphthalein, 2*s*. 4*d*. oz.; podoph. resin., 2*s*. 4*d*. oz.; p. glycyrrh. co., 3*d*. oz.; p. trag. co., 6½*d*. oz.; salol, 1*s*. 1½*d*. oz.; sod. chlorid., 1½*d*. oz.; sod. pot. tart., 2½*d*. oz.; sod. salicyl., 8*d*. oz.; sod. sulphis., 1*d*. oz.; sp. æth. nit., 7*d* oz.; sulphonal, 8*s*. 8*d* oz.; syrup., 2*d*. oz.; syr. aurant., 4*d*. oz.; syr. calc. lactophos., 5*d*. oz.; syr. codein. phos., 6½*d*. oz.; syr. ferri iod., 5*d*. oz.; syr. ferri phos. co., 2½*d* oz.; syr. ferri phos., 2½*d*. oz.; syr. ferri phos. c. quin. et strych., 4½*d*. oz.; syr. glycerophosph. co., 5*d*. oz.; syr. pruni virg., 3½*d*. oz.; syr. rhei, 4*d*. oz.; syr. scillæ, 2½*d*. oz.; syr. tolu, 2½*d* oz.; terebene, 6½*d*. oz.; thymol, 6*s*. 8*d*. oz.; tr. cannab. ind, 3*s*. 1½*d*. oz.; tr. lavand. co., 8½*d*. oz.; tragacanth. pulv., 3*s*. 0½*d*. oz.; ung. picis liq., 4*d* oz. Bandages: flannel, 6 yds. × 2½ ins., 2*s*. 5½*d*. each; indiarubber, 5 ft. × 2½ ins., 3*s*. 4*d*. each, 7½ ft. × 2½ ins., 5*s*. each. Lints: white, 1 oz., 6½*d*.; boric, 1 oz. 4½*d*., 2 oz. 8*d*., ½ lb. 2*s* 4*d*., 1 lb. 4*s* 4*d*. Sal alembroth, 7*s*. 4*d*. lb. Cotton-wool, 2*s*. 11*d*. lb. Oiled cambric, best quality, 33 ins. wide, 4*s*. yd.

Over 2,000 tons of glycerin was made from fat, etc., saved from the rations of the Home Commands during the last three years of the war.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, March 11.

ALTHOUGH numerous price-changes are recorded this week, there is tangible evidence of a quiet feeling in the chemical and drug markets and also in Mincing Lane produce. Business with the Continent is under a cloud at the moment so far as regards Holland, where the dock strike, which has been in progress for a fortnight, is effectually holding up imports and exports. There is also a dock strike in Norway, which is retarding the export of cod-liver oil and inconveniencing buyers. As we forecasted a fortnight ago, a sharp improvement has taken place in the value of the German mark, quoted to-day at 260. This, of course, means that the trend of prices in Germany will continue to advance. It is evident, however, in certain items of chemicals (including photographic) that Germany is out to throttle the British makers, as some very low prices are quoted as a result of the low rate of exchange. Among the changes in chemicals is a further advance in oxalic acid. Citric acid is firmer, and tartaric acid is strong; cream of tartar is also firm. Phenazone is scarce and dearer, likewise thymol, creosote (ex beechwood) and ammon. ichthyosulphonate. Aspirin and the salicylates group continue very firm. Benzoates, barbitone, tannio acid, calcium lactate, paralydehyde, and lactic acid are among the cheaper products. Japanese camphor is weak and lower. Menthol and oil are also cheaper. It is anticipated that bromides will improve later, when the cheaper German parcels have been absorbed, and especially if the fall in the German exchange should continue. Crude drugs have been quiet, pending the auctions to-day:

Higher	Firmer	Easier	Lower
Anise, star	Aloes (Cape)	Aubepine	Areca
Bay oil	Ammon. ichthyosulphonate	Benzonaphthol	Barbitone
Bergamot oil	Methyl sulphonal	Calcium lactate	Benzoic acid
Camphor oil (Jp.)		Camphor (Jp. ref.)	Calumba
Cedarwood oil		Cloves (Zan.)	Cardamoms
Citric acid		Cod liver oil	Lavender oil (Sp.)
Indol		Coumarin	Litharge
Ipecacuanha (Matto Grosso)		Farina (Jp.)	Mint oil (Jp.)
Juniper-berry oil		Lactic acid	Paraldehyde
Nux vomica		Linseed oil	Sbellac
Oxalic acid		Menthol	Soda benzoate
Phenazone		Pepper (white, Muntok and Singapore)	Stramonium
Quicksilver		Tannic acid	
Sarsaparilla (Native J.)		Turmeric	
Soda sulphite			
Thymol			
Turpentine			

Cablegrams.

BERGEN, March 4.—The catch of cod for the week ending February 27 amounted to 4,344,000, against 2,642,000, the yield of steam-refined oil being 7,340 barrels, against 3,770 barrels at the corresponding date of last year. Buyers are showing more interest, and the market is firmer.

NEW YORK, March 10.—Business is fair. Quicksilver is higher at $85.00 per bottle. Formaldehyde has advanced to 80c. and hexamine to $3.35. Curaçao aloes is dearer at 10c.; mandrake-root is 5c. higher at 45c.; and short buchu has advanced to $3.50. Sweet oil of birch is cheaper at 75c. Jalap is lower at 75c.; gentian is cheaper at 12c. per lb. and buckthorn-bark at 70c. per lb.

ACETANILIDE is firm and by no means plentiful at from 4*s.* 3*d.* to 4*s.* 4*d.* for crystals or powder.

AGAR-AGAR.—Small sales of No. 1 Kobe have been made at 3*s.* 3*d.* per lb. on the spot.

ALBUMEN is quiet, prime Chinese hen offering on the spot at 6*s.* 2*d.*, afloat at 6*s.* 3*d.*, and February-March shipment at 6*s.* 7*d.* per lb. c.i.f.

AMMON. ICHTHYOSULPH. is rather higher on the spot at 2*s.* 9*d.* per lb. in bulk.

ANTIMONY.—There is not much doing in refined, which is firm for English at 72*l.* to 75*l.*, but foreign is irregular and widely divergent, a few parcels being offered rather cheaply at 65*l.*, March shipment, although 99 per cent. is not guaranteed. Handy lots might be sold at 68*l.*, and even more. Chinese crude afloat might be secured at 64*l.* c.i.f. It is very difficult to procure ore either on this side or America, where supplies are eagerly sought after.

ARSENIC.—There is a little Australian available, sellers asking about 65*l.* White Cornish attracts a steady demand at 68*l.* to 70*l.* delivered London.

ASPIRIN remains firm at 6*s.* per lb. on the spot, but French makers' prices are tending higher at from 6*s.* 3*d.* to 6*s.* 6*d.* as to quantity.

BARBITONE can be imported from the Continent at the lower price of about 26*s.* to 27*s.* per lb.

BELLADONNA-ROOT.—For Indian root (0.5 to 0.6 per cent. alkaloid) 2*s.* per lb. was paid this week. During the war the demand was good, but it has now fallen off, and the position has been reversed—*i.e.*, English root and leaves are being largely shipped to India.

BENZOATES.—Both acid and soda are rather cheaper. Benzoic acid ex toluol can be had at from 4*s.* 6*d.* to 4*s.* 9*d.*, and sodium benzoate is also quoted at these figures.

BENZONAPHTHOL is offering at 17*s.* per lb. to arrive.

BROMIDES are unchanged, with potash offering at from 3*s.* 10*d.* to 4*s.* 3*d.* per lb. as to quantity and seller. There has been a heavy decline in the German rate of exchange this week, which improves the values of all chemicals from that source. Ammon. is 4*s.* 3*d.* to 4*s.* 6*d.* on the spot and 4*s.* 3*d.* c.i.f., while soda is 4*s.* to 4*s.* 3*d.* per lb. A New York advice (February 19) reports that German goods are coming in, but are being re-exported about as fast as they arrive.

BUCHU.—The exports from the Union of South Africa during November 1919 amounted to 6,809 lb., valued at 2,172*l.*, against *nil* in November 1918. During the eleven months ended November 1919 the exports were 149,166 lb. (37,130*l.*), against 89,675 lb. (16,948*l.*) in 1918. There is practically no stock in London, and buyers would pay 11*s.* 6*d.* for round.

CAFFEINE.—Pure crystals are firm, English makers only offering small lots at 40*s.* per lb.

CALCIUM LACTATE is still being cut by importers, B.P. offering at from 6*s.* 9*d.* to 7*s.* 3*d.* per lb. as to quantity.

CAMPHOR is quiet and lower, with spot sales of Japanese 2½ slabs at 18*s.* 3*d.* to 17*s.* 9*d.* per lb., and February shipment at 17*s.* 3*d.* c.i.f. Flowers offer on the spot at 16*s.* in ton lots, and at 15*s.* 6*d.* c.i.f. afloat. A product made from Spanish camphoraceous oils is offered on the spot in 3½-oz. blocks at 22*s.* 6*d.* per lb.

CANARY-SEED is steadily held for 210*s.* per quarter for fine Morocco, but medium qualities are slightly easier at 195*s.* to 200*s.*

CASCARA SAGRADA.—Nothing offered at auction. Spot holders quote from 105*s.* to 110*s.* per cwt. for small parcels, according to age. A New York advice (February 19) reports an easier market, with a considerable quantity apparently in producers' hands, who seem more disposed to sell in view of the light export demand.

CASSIA FISTULA is firm, and selling readily at from 180*s.* to 185*s.* per cwt. In the drug-auction 19 bales fair, part rattly pod, were limited at 200*s.* per cwt.

CITRIC ACID is very firm at from 6*s.* 3*d.* to 6*s.* 6*d.* per lb.

CLOVES are quiet and easier, Zanzibar on the spot offering at 2*s.* 7*d.* per lb.

COCAINE is firm, with a continued good export demand, hydrochloride being from 37*s.* 6*d.* to 40*s.* per oz.

Cocoa-butter is firm at 2*s.* 11*d.* per lb. for prime English.

Cod-liver Oil.—New is offering at rather lower prices, varying from 370*s.* to 380*s.* per barrel c.i.f. for finest 1920 non-freezing Norwegian medicinal oil for March-April shipment. The Norwegian dock strike is holding up shipments and causing great inconvenience to buyers. Most buyers prefer to await developments at the moment. In the drug auction 10 barrels Aarsæther's brand were limited at 415*s.* per barrel.

Brödr. Aarsæther A/S Aalesund, in their weekly report state that, the fishing having now commenced, so far operations have been greatly impeded by stormy weather. The cod, however, is in good condition, and livers are yielding a fair quantity of oil. Up to February 28 the catch, the output of cod-liver oil, and the quantity of liver for natural oils amounted to:

4,300,000 cod,	7,430 hect. cod-liver oil,			and 1,507 hect. liver		against
2,642,000 ,,	3,710 ,,	,,	,,	916 ,,	,,	in 1919
1,215,000 ,,	1,275 ,,	,,	,,	194 ,,	,,	in 1918
2,990,000 ,,	6,053 ,,	,,	,,	1,420 ,,	,,	in 1917
7,732,000 ,,	11,063 ,,	,,	,,	1,538 ,,	,,	in 1916

At the corresponding date last year the consumption of cod-liver oil was very satisfactory, and the stocks carried over into the new season must be very small. The market is quiet, and prices have since the commencement of the new season had an easy tendency.

Coriander-seed is steady at 22*s.* 6*d.* per cwt. for good Morocco, and at 20*s.* to 21*s.* for old crop. A little business has been done in 1919 crop for shipment at 23*s.* c.i.f. terms.

Cream of Tartar is firm at 300*s.* per cwt. for 98 to 99 per cent. powder, and 275*s.* for 95 per cent. Rather freer arrivals have taken place, but fair quantities are being re-exported.

Creosote (ex Beechwood) is dearer at from 10*s.* to 11*s.* 6*d.* per lb., according to packing.

Cumin-seed is firm at 45*s.* to 47*s.* 6*d.* per cwt. for fair to good sifted Morocco, and at 50*s.* to 52*s.* 6*d.* for ordinary to fair Malta.

Farina is easier, with sales of No. 1 Japanese at 37*s.* 6*d.* per cwt. on the spot, and for February-April shipment 37*s.* to 37*s.* 6*d.* c.i.f. has been paid. Sellers of sweet-potato flour quote 33*s.* spot.

Fenugreek-seed is quiet at 15*s.* to 15*s.* 3*d.* per cwt. for fair Morocco.

Formaldehyde is still very firm at from 350*s.* per barrel and upwards.

Galls are firm, Chinese offering at 200*s.* per cwt. for plum-shape on the spot and 195*s.* c.i.f.; ordinary shape are quoted at 195*s.* on the spot and at 185*s.* c.i.f. afloat.

Ginger.—The position is dealt with editorially. Japanese is dearer, with sellers at from 67*s.* to 67*s.* 6*d.* Cochin, sound, is 100*s.*, and slightly wormy 70*s.* Calicut is 70*s.* to 85*s.*, according to quality.

Glucose is selling at 64*s.* per cwt. for duty-paid water-white on the spot.

Gum Acacia is firm, with fair Sudan sorts offering at 67*s.* 6*d.* and cleaned at 75*s.* per cwt. on the spot. In the drug auction 12 bags of fair medium glassy and amber East Indian sorts sold at 55*s.* per cwt.

Hexamine has risen sharply in the U.S.A. to $3.35 per lb., evidently due to another advance in methyl alcohol. Spot (London) sales have been made at from 16*s.* to 17*s.*, but prices will have to be revised.

Lactic Acid.—To arrive, U.S.P. quality is offering at from 8*s.* 6*d.* to 9*s.* 6*d.* per lb. c.i.f., and B.P. quality on the spot is offering at 10*s.* per lb. in carboys.

Lead Compounds.—Prices have been repeatedly revised according to the state of the market is pig lead. Quotations as raised on Wednesday were thus: Red lead and litharge 70*l.* 15*s.* for 5 tons and upward, and 72*l.* 5*s.* for less than 5 tons. Dry white lead 72*l.* and ground white lead in oil 85*l.* f.o.b. for export.

Linseed Oil.—All indications point to a continuous stringency, and prices are still tending upward, although there have been slight fluctuations. There is a scarcity of supplies, and current demands are not readily satisfied. Advancing prices for linseed, despite the much better prospective supplies from the Argentine, dominate the position all round. America is still much dependent on imports of seed. The movement of supplies from the River Plate is belated, owing to adverse weather during the harvest, and the supply of tonnage is somewhat short. It is expected that Indian seed will be shipped to America in the near future, while freight has already been secured for that destination. London closes at 127*s.* 6*d.* naked and Hull at 127*s.* per cwt.

Menthol.—Further imports of fair-sized quantities have taken place, and, as the demand is quiet, prices have eased further, with spot sales of Kobayashi-Suzuki at from 68*s.* to 66*s.* per lb.

Methyl Sulphonal is rather firmer at from about 50*s.* to 52*s.* per lb. on the spot.

Metol.—In order to meet German competition, the price of British make has been reduced to 40*s.* per lb., less 30 per cent. discount. During the war a very extensive plant was laid down here with the idea of providing developing agents for war purposes, and since then British makers have been able to meet the demand not only of home trade, but also in all the Colonies. A determined effort is being made to prevent the trade again reverting to the Germans, and the movement is deserving of full support from consumers.

Oxalic Acid is dearer, both the Dutch and English makers quoting 2*s.* 6*d.* per lb. for prompt delivery in small lots only, and in second-hands up to 2*s.* 9*d.* has been paid.

Paraldehyde is cheaper in one direction, offering at 6*s.* per lb. c.i.f. to come forward, and on the spot 6*s.* 3*d.* will buy.

Pepper has been quiet throughout, fair *black* Singapore offering at 10½*d.* per lb. on the spot, and for March-May shipment 10⅝*d.* c.i.f. has been paid. Lampong is 10½*d.* spot and February-April shipment is 10¼*d.* c.i.f. Tellicherry is 1*s.* 1*d.* and Alleppy 10¾*d.* spot, being unaltered. *White* pepper is also quiet, fair Muntok offering at 1*s.* 5¼*d.* per lb. on the spot, and February-April shipment at 1*s.* 5¼*d.* c.i.f. d.w. Singapore has sellers at 1*s.* 4¾*d.* spot, and February-April shipment at 1*s.* 4¾*d.* c.i.f. d.w.

Petroleum is firm at 2*s.* 1*d.* per gallon for ordinary refined American and at 2*s.* 2*d.* for water-white.

Phenacetin is unchanged at from 17*s.* to 18*s.* per lb. as to seller.

Phenazone is very scarce and dearer at the source; spot prices show some irregularity, varying from about 32*s.* to 35*s.* per lb.

Pimento is slow, with spot sellers at 6*d.* per lb.

Quicksilver.—The scarcity of supplies has apparently become rather acute. There is, indeed, very little to be had just at the moment either of Spanish or Italian quicksilver, of which no notable consignments may come along for another month or so. Prices on Wednesday were again raised 1*l.* a bottle or so to 25*l.* 10*s.*, which constitutes a new high record, or 10*s.* in excess of the extreme highest seen within the war period. Our imports for last month were only 6,848 bottles, this making a total of only 7,712 bottles for the two months (against 11,409 bottles for the same period last year), of which 5,196 bottles were re-exported. These figures give an indication of the depleted stocks, and business is largely a matter of negotiation until better supplies come on the market.

Quinine.—The landings in London during February amounted to 180,000 oz. and the deliveries to 240,192 oz., leaving a stock on February 28 of 218,096 oz., against 200,736 oz. in 1919.

Salicylates.—Salicylic acid B.P. powder remains firm, English makers quoting 3*s.* 9*d.* in ton lots and 4*s.* for smaller lots. Sodium salicylate powder is also firm at 4*s.* 6*d.* to 4*s.* 9*d.*, crystals being 6*d.* extra.

Shellac has been quiet throughout, the spot price of usual standard TN Orange quality having declined about 25*s.*, opening on Monday with sellers at 800*s.*; AC cakey to blocky is unchanged at 610*s.* to 620*s.*, GAL at 600*s.*, and fine Orange 1,000*s.* Futures show the considerable decline of from 50*s.* to 60*s.* per cwt., the sales including May delivery at from 725*s.* to 665*s.* The market for shipment is quiet, sellers quoting February-March at 670*s.*, and March-May has been done at 580*s.* c.i.f. The exports from Calcutta during the second half of February (including button) were: U.K. and Continent, *nil*; U.S.A.,

3,200 cwt., making the total for the fortnight 3,200 cwt. and for the month 17,900 cwt.

Soda Sulphite is dearer at 30*s.* to 31*s.* per cwt. in kegs, and anhydrous at 56*s.*

Stramonium.—Spanish leaves are lower at 97*s.* 6*d.* per cwt.

Tannic Acid.—Owing to arrivals B.P. *leviss* is easier at from 10*s.* 3*d.* to 10*s.* 6*d.* on the spot, and 9*s.* 6*d.* per lb. c.i.f. to arrive.

Tartaric Acid is still very firm and in large demand at from 3*s.* 11*d.* to 4*s.* per lb.

Thymol is dearer, with sales of Indian from second-hands at from 52*s.* 6*d.* to 55*s.* per lb. on spot.

Turpentine.—A little more American spirit has been coming in lately, but the market has again advanced to nearly 218*s.* for spot and near delivery. The tendency is very irregular, the difference between near-at-hand and summer deliveries being as much as 45*s.* per cwt. Some considerable business has been put through in forward positions. There is a steady outlet, chiefly in small lots, to meet near requirements. Supplies will probably remain very light for another month or two. American consumption is very active, and the small surplus in distillers' hands on the other side is tightly held.

Valerian.—For Indian of fair average quality 120*s.* per cwt. is quoted for spot supplies which are stated to be large. We understand that Germany is offering Belgium root at lower prices than Belgium itself offers. In the drug-auction 8 bales Belgian were offered at 155*s.* per cwt.

Vanillin is irregular, offering at from 80*s.* to 81*s.* 6*d.* per lb., but some ask more.

Wax, Vegetable.—Japanese is firmer, with spot sellers at 110*s.* per cwt.

Wood Oil is in fair demand. Best Hankow is quoted at 147*s.* per cwt. and ordinary Hong Kong at 136*s.* on the spot.

London Drug-auctions.

London Commercial Sale Rooms.
Mincing Lane, E.C. 3, March 12.

A large quantity of drugs was catalogued, but the public demand on the whole was poor, although a fair quantity changed hands subsequent to the auction. Cape aloes were slow but dearer for firsts. Genuine Socotrine is scarce and wanted. Star anise sold at much higher rates. Areca is plentiful and easier; balsam tolu is steady. Sumatra and Palembang benzoin are arriving more freely, and are about steady. Cardamoms were again slow of sale, the demand being for pale qualities which are scarce. Calumba sold at lower prices. Gamboge is firm at previous rates. Although only moderate quantities of honey were put up buyers held off, and practically all the offerings were bought in. Matto Grosso ipecacuanha was much dearer, only a few bales being offered. Cartagena is held for a considerable advance. Kola is plentiful but quiet. Nux vomica is scarce, and small lots sold at higher prices. Fine Shensi rhubarb maintains its previous high prices, but High-dried tends easier. Sarsaparilla brought fully previous prices for grey, and Lima, the cheapest description on the market, had been disposed of privately. Native Jamaica was dearer. Tinnevelly senna is slow but about steady, with practically no good bold green leaf offered. Beeswax met with practically no demand.

		Offered	Sold
Ajowan-seed		74	0
Almonds...	(bgs.)	32	0
Aloes—			
Cape	(cs.)	95	27
East Indian	(kegs)	28	0
Ambergris	(pkgs.)	3	3
Ammoniacum		9	0
Anise, star	(cs.)	50	50
Annatto-seed		147	0
Areca		195	0
Argol (Cape)		21	0
Asafetida	(cs.)	2	*2
Balsam tolu		20	2
Bay-leaves	(bgs.)	19	0
Belladonna-root		20	0
Benzoin—			
Palembang		55	0
Sumatra		292	45

		Offered	Sold
Cajuput oil	(cs.)	50	0
Calumba		1054	50
Camphor (Ch. cr.)		79	0
,, (ref.)	(cs.)	1	0
Canella alba		2	0
Cannab. ind. (B'bay tops)		2	0
,, ,, (African)		37	0
Cantharides (Russ.)	(cks.)	2	0
,, (Ch.)	(cs.)	12	0
Cardamoms		1791	18
Cascarilla	(sifts)	5	0
Casein		80	80
Cashew-nuts		160	0
Cassia fistula		19	0
Cassia oil		5	0
Cevadilla-seed		30	0
Cinchona		124	3
Cochineal		6	0

		Offered	Sold
Cod-liver oil (Nor.)		10	0
Colchicum-root		5	0
,, seed		3	0
Colocynth		10	0
Condurango		24	0
Copaiba (Para)		30	0
Croton-seed		114	0
Cubebs		150	0
Cumin-seed			0
Cuttlefish-bone		162	37
Damiana-leaves		11	0
Digitalis-leaves (Sp.)		4	0
Dill seed...		154	0
Dragon's-blood		56	11
Elemi	(cs.)	66	0
Elm-bark		4	4
Ergot	(bag)	1	0
Eucalyptus oil		164	0
Fennel-seed		110	0
Fenugreek-seed		47	47
Flies, Mexican	(bls.)	88	0
Formaldehyde	(bls.)	10	0
Galangal		141	0
Galbanum	(cs.)	7	0
Galls		20	0
Gamboge		21	5
Ginger (Jp.)		3	3
Guaiacum		14	0
Gum acacia		12	12
Gum karaya		140	0
Honey—			
Californian		140	0
Dominica		18	18
Honolulu		50	0
Jamaica		252	0
New Zealand		69	10
Porto Rico		138	14
St. Lucia		10	0
San Domingo		191	0
West Ind.		32	0
Ipecacuanha—			
Cartagena		9	0
Matto Grosso		12	12
Jalap		20	0
Juniper-berries		100	0
Kava-kava		6	0
Kola		457	9
Liquorice-juice (block)	(cs.)	90	0
,, ,, (sticks)	(cs.)	15	0

		Offered	Sold
Liquorice-root		172	0
Lobelia-herb	(bls.)	2	*1
Marshmallow-root		22	0
Mastich		2	0
Musk seed	(bgs.)	30	0
Myrrh		84	16
Nux vomica		108	108
Olibanum		408	0
Orange-peel		67	*10
Orris	(Flor.)	27	0
,,	(Mor.)	28	0
Peppermint oil (Amer.)	(cs.)	5	0
Pistachio kernels	(cs.)	22	0
Rhubarb (Ch.)		77	27
Sage-leaves	(bls.)	29	0
Sarsaparilla—			
Grey Jamaica		23	18
Honduras		10	0
Lima		56	*56
Mexican		20	0
Native Jam.		13	2
Scammony root		91	0
Scopolia		16	0
Senega		5	0
Senna and pods—			
Alex.		38	0
Tinnevelly		1155	175
Simaruba		8	0
Squill	(bgs.)	225	0
Strophanthus		17	0
Tamarinds—			
East Indian		151	0
Tonka-beans		28	0
Tragacanth		3	1
Turmeric		570	0
Turtle, dried	(cs.)	19	19
Valerian (Belg.)		9	0
Wax (bees')—			
Abyssinian		178	0
East African		888	2
East Indian		183	5
Madagascar		38	0
Morocco		10	0
Mozambique		78	0
San Domingo		12	0
Zanzibar		232	0
Wild cherry-bark		11	0
Witch-hazel-leaves		8	0
Wood oil (Hankow)	(cks.)	12	0

* Sold privately.

Owing to the Easter holidays the next drug-auction will be held on April 15.

The late Mr. Roper.

At the conclusion of his drug sale to-day Mr. Alfred Devitt (Lewis & Peat, Ltd.) referred in sympathetic terms to the death of Mr. Alfred Roper, who passed away on Sunday. Mr. Roper, he said, would always be remembered in the drug-trade as one of the most human of men, and he was never known to utter an unkind word. A vote expressing sympathy with his widow was carried by the room, and Mr. W. S. Phillips acknowledged on behalf of the firm of Bowyer & Bartleet.

Aloes.—Cape was slow of sale but rather dearer, 25 cases being disposed of, comprising fair to good firsts, 82*s.* 6*d.* to 85*s.*, and three cases ullaged sold at from 65*s.* to 72*s.* 6*d.* per cwt.

The landings in London during February amounted to 523 packages and the deliveries to 214 packages, leaving a stock of 955 packages against 804 packages in 1919; stocks of aloes in gourds amounted to 500.

The exports from the Union of South Africa during November 1919 amounted to 183,348 lb. (2,124*l.*), against 193,389 lb. (2,725*l.*) for November 1918. During the eleven months ended November 1919 the exports amounted to 1,020,312 lb. (10,884*l.*), against 537,275 lb. (6,407*l.*) in 1918.

Ambergris.—Three parcels from New Zealand (weighing 186½ oz.) sold at from 75*s.* to 77*s.* 6*d.* per oz.

Anise, Star, is dearer, 50 bags fair Chinese selling at 190*s.* per cwt., subject to being fair average quality, sample not being ready.

Areca.—Easier; 100 bags of medium to bold, slightly wormy, were obtainable at 75*s.* per cwt., at which sales have been made privately.

Balsam Tolu.—Two cases of fair sold at 9*s.* per lb., being steady.

Benzoin.—Sumatra is in good supply owing to arrivals, although the bulk of the offerings to-day consisted of middling seconds and thirds. Palembang is also in better supply. Twenty-five cases of fair almondy

Sumatra seconds sold at 9*l*. 5*s*., and four cases thirds sold at 8*l*. 5*s*.; 13 cases of mostly ordinary cross-cut thirds sold at from 5*l*. 10*s*. to 6*l*. 2*s*. 6*d*., and rather better at 6*l*. 10*s*. to 6*l*. 15*s*. per cwt. Five cases fair Palembang seconds realised 7*l*. per cwt.

Calumba.—Large arrivals continue to be reported, and the market is easier, good heavy bright clean sorts offering at 65*s*. and middling at 55*s*. per cwt. In auction 50 bags fair natural sorts sold at 60*s*. per cwt., being lower. The landings in London during February amounted to 2,784 bags and the deliveries to 50 bags, leaving a stock on February 28 of 7,186 bags, against 1,792 bags.

Canella Alba is very scarce; two bales fair small quill were held at 3*s*. 6*d*. per lb.

Cantharides.—Two casks fair Russian were held at 15*s*. per lb.

Cardamoms were slow of sale, with an absence of good pale quality. A few cases of Ceylon-Mysore good bold pale sold at 7*s*. 8*d*., and bold medium palish at 6*s*. to 6*s*. 6*d*.

The landings in London during February amounted to 885 packages and the deliveries to 667 packages, leaving a stock of 7,127 packages against 2,332 packages in February 1919.

Casein.—A lot of 80 bags Indian sold at 38*s*., sea-damaged at from 11*s*. 6*d*. to 12*s*., and badly sea-damaged at 9*s*.

Cinchona.—Three bales of thin Guayaquil quill, partly slightly damaged, sold at 11*d*. per lb.

Croton-seed.—Good bright Ceylon were held at 85*s*. per cwt.

Cuttle-fish Bone sold cheaply, 29 bales of fair East Indian but damp sorts selling at 4*d*. per lb., and eight bales good fair pale damp sorts went at 9*d*. per lb.

Dragon's-blood.—A parcel of six cases of good re-boiled, mixed with about 15 per cent. of inferior, sold at from 24*l*. 10*s*. to 25*l*. per cwt. (one lot). Five Singapore slab and lump had been sold privately.

Elemi.—Further large arrivals have taken place; 66 cases offered and bought in, including good pale firsts at 180*s*. to 185*s*. per cwt.

Fenugreek-seed.—A lot of 47 bags sold without reserve at 11*s*. 3*d*. per cwt.

Flies (Mexican).—A lot of 88 bales (10 tons) was held at 2*s*. 6*d*. per lb.

Formaldehyde.—In the drug auction ten barrels were held at 360*s*. per cwt.

Gamboge is firm, four cases of good orange fractured Siam pipe, slightly damp, selling at 40*l*. per cwt. Towards the close of the sale a single case of very blocky Siam, but mostly fair fracture, sold at 38*l*.

Honey.—Although only moderate quantities were catalogued buyers held off, and practically all the offerings were bought in; 18 cases Dominican sold at from 72*s*. 6*d*. to 85*s*. for light-brown liquid, and 14 barrels Jamaica sold at from 105*s*. to 110*s*. for pale to white set; 10 cases good white New Zealand realised 105*s*. for white set. The offerings included eighty-eight casks Porto Rico, pale to cream set, limited at 100*s*., a bid of 90*s*. was refused for one lot; 140 cases pale set Californian were held for 100*s*., and fifty cases Honolulu straw set were held for 75*s*., and 191 casks San Domingo were held at 85*s*. to 90*s*. for pale set and biscuit colour at 83*s*. to 85*s*.; 218 barrels Jamaica of different qualities were taken out at from 85*s*. to 100*s*. Private market has been slow, buyers looking for cheaper prices from importers, which have not materialised to any extent. Australian has sold at easier rates, including ordinary at from 70*s*. to 72*s*. 6*d*. and pale set at 75*s*. Californian has been sold at from 97*s*. 6*d*. to mixed colours to 105*s*. for good pale. Fine white New Zealand is 125*s*.

Ipecacuanha.—Matto Grosso was from 3*s*. 6*d*. to 7*s*. per lb. higher than the previous auction, and from 2*s*. to 5*s*. higher than the prices paid privately, from 21*s*. to 25*s*. per lb. being paid for fair to good bright sound, part sea and grease damaged. Seven bags Cartagena offered, for which 22*s*. per lb. was wanted for greyish, the highest bid being 19*s*. 3*d*. In another catalogue two cases of good stout were retired at 20*s*. per lb. The lot of 88 bales Matto Grosso is now in the warehouse.

The London deliveries in February were 6 Matto Grosso and 12 East Indian, while the arrivals were 1 package Matto Grosso and 20 East Indian, leaving a stock of 114 Matto Grosso, 4 Minas, 23 Cartagena, and 47 East Indian, or a total of 188 packages, against 481 packages in January 1918.

Jalap.—Twenty bags of small to medium Vera Cruz were retired at 3*s*. 6*d*. per lb.

Juniper-berries.—A lot of 50 bags fair were held at 28*s*. per cwt.

Kamala.—Six bags were limited at 8*s*. per lb.

Kola met with a poor demand, three bags of fair West Indian halves and whole selling at 6*d*. per lb., and five bags slightly wormy halves went at 3*d*. per lb.

Lobelia-herb.—Four bales offered, of which one had been sold privately at 8*s*. 6*d*. per lb.

Myrrh remains firm. Ten bags of ordinary small part blocky Somali sorts sold at 10*l*. 10*s*., and a single bag of fair sold at 14*l*. Six bags of good pale slightly blocky and small of Aden character were held at 16*l*. per cwt.

Nux Vomica.—Dearer. Two bags ordinary small dull Calcutta sold at the full price of 42*s*. 6*d*. per cwt.; for twenty-three bags fair Bombay 58*s*. was paid, while eighteen bags sound darkish Ceylon went at 51*s*. and sea-damaged at 50*s*. Towards the close of the auction sixty-two bags fair Bombay sold at from 57*s*. 6*d*. to 60*s*.

Orris.—A lot of 28 bags leanish and rather dark Morocco was held at 60*s*. per cwt.

Rhubarb is firm for Shensi, two cases medium to bold round, with three-quarters good pinky fracture, selling at 12*s*. per lb., and for a case of medium flat 12*s*. was also paid; 14 cases of medium to bold rough round High-dried, with half dull and half grey fracture, sold without reserve at 6*s*. 8*d*. to 6*s*. 9*d*. Four cases of small to bold round horny High-dried sold at 6*s*. per lb., and one case of small to bold flat High-dried, with three quarter fair pinky fracture, sold at 8*s*. 3*d*.

The landings in London during February amounted to 192 chests and the deliveries to 68 chests, leaving a stock of 446 chests against 364 chests in February 1919.

Sarsaparilla was firm for grey Jamaica, seven bales of which sold at 3*s*. 8*d*. to 4*s*. for good, nine bales went at 2*s*. 9*d*. for part mouldy, and two bales wormy realised 2*s*. 3*d*. Ten serons Honduras were held at 6*s*., the value being 5*s*. 9*d*.; recent business was done at 5*s*. 6*d*. c.i.f.; fifty-six bales Lima catalogued for sale had been sold privately; the value is 2*s*. 6*d*. per lb., Lima being the cheapest description on the market; for Mexican, twenty bales of which offered, 3*s*. 6*d*. is wanted. Two bales fair red native, slightly mixed, sold at 3*s*. 3*d*. per lb.

The landings in London during February amounted to 74 bales and the deliveries to 132 bales, leaving a stock on February 28 of 565 bales, against 1,225 bales in February 1919.

Senega.—Five bales, of which no sample was shown, were held at 13*s*. 6*d*., a bid of 13*s*. 3*d*. being refused.

Senna was slow of sale, but practically no good green Tinnevelly offered: good, small to medium, clean greenish leaf sold at from 9½*d*. to 10½*d*., middling, part specky, 8*d*. to 8½*d*., ordinary small to medium yellowish and specky 6½*d*. to 7½*d*. per lb. *Pods*, small dark 4½*d*.

Slippery Elm Bark.—Four casks of fair sold at 4*s*. 6*d*. per lb.

Turile (Dried).—Sixteen packages offered, and ten sold at from 4*s*. 2*d*. to 5*s*. 9*d*. per lb., and for a further case 7*s*. 3*d*. was paid.

Essential Oils Market.

Business on the whole is dull this week, and there is not much movement to report in prices, which remain very firm. Supplies continue to be scarce. Star anise is quiet, and bergamot appears still to be on the upward trend. Camphor (white, Japanese) is dearer. Cedarwood continues to advance, while citronella is steady. No change in the spot price of lemongrass is quoted, but forward prices are lower, and mint (Japanese) is cheaper. Orange and palmarosa are very scarce and firm. The price of rosemary is unchanged, and spike (Spanish) is a trifle easier.

Anise Oil, Star, is quiet, with spot sales of "Red Ship" brand at 5s. 5½d. per lb.

Bay is offered in limited quantity, and 28s. to 30s. per lb. is quoted; the latter price is said to have been paid this week.

Bergamot.—A brisk demand continues, and prices quoted range from 27s. to 35s. per lb. on the spot for 38/39 l.a., and 32s. 6d. for forward delivery. A Palermo advice, dated March 6, reports a heavy advance during last week. The demand has been very active; prices have jumped at every new transaction, and the market reached an advance of fully 20 per cent.

Bois de rose (femelle) is firm on the spot, and 55s. to 60s. per lb. has been quoted.

Cajuput.—In the drug-auction 50 cases were held at 3s. 9d. per lb.

Camphor.—White essential Japanese is dearer, and 177s. 6d. per cwt. is quoted. The exports from Japan during November 1919 amounted to 22,793 kin, valued at 25,004 yen. During the eleven months ended November 30 they were as follows:

	1917	1918	1919
Kin	1,705,397	1,282,287	1,015,403
Yen	314,386	251,289	322,022

Cananga is steady at 26s. to 26s. 6d., and a good demand is reported.

Cedarwood is again higher at from 3s. 3d. to 3s. 6d. per lb. on the spot.

Citronella is steady at 3s. 6d. per lb. for *Ceylon* on the spot. *Java* is firm at 6s. 3d. Forward prices would be booked at from 5s. 6d. to 5s. 9d.

Eucalyptus.—In the drug-auction 60 cases offered, 75 to 77 per cent. cineol, being held at 3s. 3d.

Geranium.—Algerian is quoted at 39s. to 40s. per lb. on the spot, and for forward delivery 37s. The consignment of oil reported lost at sea last week should read *Bourbon*, and not *Algerian*, as stated.

Juniper-berry (B.P.).—On the spot 22s. 6d. per lb. is quoted, being dearer; *wood* is offered at 33s. 3d. per lb.

Laurel (leaf) is quoted at 13s. 6d. to 14s. per lb. on the spot.

Lavender.—A Spanish oil of low ester value (10-12 per cent.) is offered on the spot at 28s. 6d. per lb.

Lemon is a turn firmer this week, and is quoted at the source from 10s. 6d. per lb. On the spot offers vary from 8s. 6d. to 11s., but cheap sellers are practically off the market. A Palermo advice, dated March 6, states: More than 10 per cent. on our last figures was freely paid locally, and the position of the article remains very firm, with a good tendency. We cannot say that the upward movement is brought on only by local speculators, as both exporters and distillers, even though reluctantly, are paying full prices.

Lemongrass.—Cochin is firm on the spot at 1s. 4d. per oz. At the source 1s. 2d. per oz. in large drums is quoted.

Marjoram is on the spot at 8s. to 8s. 6d. per lb. in one direction.

Mint Oil is about 9d. per lb. cheaper, spot sales of dementholised Kobayashi-Suzuki having been made at 15s. per lb. and sellers. Some shipments have been rejected by the United States authorities and returned to London.

Neroli (Bigarade).—A French product, stated to be of excellent quality, is offered on the spot at 30s. per oz.

Orange continues very firm, and for the *sweet* 44s. to 47s. per lb. is quoted to come forward. There appears to be little on spot. *Bitter* is quoted on the spot at from 30s. to 42s. per lb. For *West Indian* the spot quotation is 45s., but shipments are expected shortly, and 35s. per lb. c.i.f. London would probably be accepted. A Palermo advice, dated March 6, states: Local prices remain unchanged, but the available supply is extremely scarce, and the small quantities left are in the hands of very strong holders.

Palmarosa is very scarce on the spot, and 26s. per lb. is quoted. One pot was bought this week at 23s., but this would be difficult to repeat. Bombay prices c.i.f. London range from 24s. 6d. to 25s. 6d. The *Morvada* has brought 11 pots of Palmarosa from Bombay to London.

Petitgrain.—*Paraguayan* is in small supply, and 28s. per lb. has been paid. For forward delivery 22s. to 23s. per lb. has been quoted.

Rosemary is very scarce on the spot, but 6s. to 6s. 6d. for Spanish is still quoted. The new distillate is due at the end of March, and although higher prices are anticipated 5s. 9d. per lb. would still be accepted.

Shui is offered on the spot at 18s. 6d. per lb.

Spike is firm and in good demand at 13s. to 13s. 6d. per lb. for Spanish oil. Stocks in Spain are said to be very scarce, and as the next season's crop is not due until September or October higher prices may be expected.

The prices of the following synthetics have changed: Aubepine is offered at 40s. per lb. on the spot and forward (70 per cent.). For 100 per cent. 47s. 6d. is quoted. Citral is plentiful on the spot at 32s. per lb., which is cheap in regard to the price of lemongrass oil. Coumarin can be obtained at from 37s. to 39s. per lb. on the spot. Over 40s. has been quoted. Arrivals valued at 1,530*l.* have taken place from Germany this week. Indol is difficult to find, and 50s. per lb. prompt shipment is quoted. Phenyl ethyl alcohol is offered at 90s. to 100s. per lb., and of Phenyl acetic aldehyde there is little on offer, and 140s. per lb. has been quoted. Terpineol of Dutch manufacture, and said to be equal to the finest French qualities, is offered at 7s. 6d. per lb. for June deliveries.

German Drug and Chemical Markets.

"It would almost seem as if a ray of light were now apparent on the dark horizon of German economic life" is the optimistic introductory sentence to the March report of a leading Hamburg wholesale drug house. "The question of surrendering the accused Germans has not led to an immediate conflict, and time has been allowed to exert its moderating influence. The German miner shows a disposition now to work overtime; political disputes seem to be losing their bitterness, and there is a return to a conscientious desire to work productively. However, these apparent symptoms have as yet had no tangible effect in improving the depreciated currency. Nevertheless, we must be happy to be able to take into account some measure of hope. Notwithstanding this, prices for most of our goods do not exhibit the slightest improvement, since the general tendency continues to be in an upward direction." The following quotations are in marks for 1 kilogram:

Acetic Acid (80 per cent.).—Latest quotation is m.15, at which there was a brisk demand. Supplies are by no means adequate, although we are only approaching the time when it is in real demand.

Anise Oil is obtainable only in very small quantities at m.325.

Benzaldehyde, almost free from chlorine, for foodstuffs, is scarcely obtainable from manufacturers, so that the increasing demand has to be satisfied with stocks held by dealers, which has resulted in an advance to m.250.

Benzoic Acid has advanced to m.150, and is scarce at that figure.

Caffeine (pure) has been in great demand by foreign buyers, and m.1,150 marks the latest quotation, at which price it is scarce. Caffeine salts are in comparison very cheap.

Citric Acid is in great demand, and at the price of m.160 is scarcely obtainable. Owing to prohibition America is trying to buy large quantities in Europe. The high price for beer is likely to create an increased demand for citric acid in the home market during the coming summer months.

Coumarin now approximates the foreign price at m.1,500 to m.1,100, at which it is firm. England and Japan are in the market as purchasers.

Cream of Tartar (99-100 per cent.), in sympathy with tartaric acid, has advanced to m.80, and compared with the price of tartaric acid may be said to be behindhand.

Eucalyptus Oil (globulus) has realised m.150.

Gentian-root is scarce at m.12.

Glycerin.—The demand at m.23 exceeds the supply, since the factory price was fixed at m.24 for first white.

Heliotropin is very scarce, and quite unobtainable under m.1,300.

Lemon Oil, in consequence of increased demand and scarcity of supplies, has quickly advanced to m.340.

Menthol Cryst.—The stocks in Hamburg have been enormously depleted owing to the impossibility of obtaining fresh supplies from abroad in consequence of the depreciated currency, and original cases are scarcely to be found. In broken bulk it is offered at m.2,500.

Milk Sugar is now very scarce, and we prefer to purchase instead of selling this article.

Oil of Cloves.—Genuine is very scarce at m.975.

Salicylic Acid has quickly increased to m.135.

Sodium Benzoate.—Manufacturers can scarcely supply, and dealers are asking up to m.130.

Tartaric Acid is in extraordinarily great demand, and stocks cannot be replenished either by new arrivals or by supplies from manufacturers, consequently prices have advanced to m.124 for granular and m.125 for crystals and powder. A further advance must be expected.

Thyme, in powder, remains unchanged, low at m.4.50, gross for net.

Vanillin exhibits an increasing demand. German makers cannot meet the demand, while supplies from abroad have become more difficult and scarcer.

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

The Coming Council Election.

Sir,—"Sack the lot," said Lord Fisher, when he found it impossible to reform the Admiralty. I felt like that, too, when I read your quotation from the sayings of a "minor official" of the Pharmaceutical Society. How much does it matter what is the number of fourteen-guinea chemists? The principle of admission by examination was "wangled" and broken last August at the Central Hall. Our resistant force against outside attacks was for ever weakened. Will officials never learn? We can, however, strengthen our resistance by sending all the worshippers of the god of expediency back to their obscurity. Five of these men who are up for re-election sold our birthright for a mess of pottage. Let us take good care that this opportunity of betrayal is their last. The one answer to the backboneless crew is "Never again." Scrutator. (10/31.)

The Surcharge on Patents.

Sir,—If the forecast of the President of the Liverpool Chemists' Association (*C. & D.*, March 6, p. 90) that the 1½ per cent. charge for carriage is likely to be doubled or even quadrupled in the immediate future proves correct, such an increase would at any rate put an end to the present unsatisfactory state of affairs with regard to those proprietary medicines which show an infinitesimal margin of profit, for it would completely absorb that margin, and the goods would disappear from sale automatically. The manufacturers would then be obliged to take some steps with regard to raising the value covered by the stamp duties, or else to discontinue the 1*s.* 3*d.* sizes altogether, which latter procedure would certainly cut off a large proportion of their buying public. It is high time that retailers should have an organisation of their own to protect their interests, and it is to be hoped that the test case will decide against the Pharmaceutical Society being able to deal with trade matters, as their past record is not one which would make the retailer enthusiastic in entrusting his business affairs to their guidance. Yours truly,

Oneratus. (61/7.)

Timing Insurance Dispensing.

Sir,—"Xrayser II.'s" argument as to driving a team of four horses is quite off the track. A single-handed chemist may possess four horses—*i.e.*, four departments in his business—but he cannot possibly drive them "in team." He can only drive one horse—*i.e.*, be engaged in one department only—at any one time. If the chemist is dispensing he cannot be serving customers, etc., and *vice versa*. To put the matter very simply, if the single-handed chemist does one or more hour's Insurance dispensing, then one or more hour's average overhead expenses must be debited to the dispensing. If he spends the whole day in dispensing, then, obviously, the whole day's expenses must be allowed. In response to "Xrayser II.'s" request, I would explain that the "etc." mentioned with breakages would include any expense or loss incidental to dispensing, which would not be entered in the ledger under "overhead expenses." Examples are: A bottle or measure gets upset and the contents wasted; wastages of ingredients in measuring or weighing out, and so on. It must be noted that the allowance "breakages, etc., say 1*s.* per day" is in connection with the dispensing of fifty bottles of medicine. Any chemist who dispenses fifty mixtures a day would have at least three or four cracked or broken bottles in his dustbin at the end of the day. At the present price of bottles that alone would nearly swallow up the 1*s.* allowed, leaving very little allowance, if any, for the "etc." For "Xrayser II." to suggest this estimate of 1*s.* per day to be "monstrously exaggerated" shows that he cannot have carefully considered the matter. He further unjustly accuses me of refuting myself. I stated that chemists are now paid at the rate of 5*s.* 4*d.* per hour in theory, but not in practice. That statement does not constitute self-refutation, but, on the contrary, is self-explanatory. In reference to the suggested minimum satisfactory terms, I would point out that if 2*s.* per hour dispensing fee, *plus* 33⅓ per cent. on cost of materials, was, without any discounting, very moderate pre-war terms, then 4*s.* 6*d.* or 5*s.* per hour, *plus* 33⅓ per cent. on cost of materials, is certainly not too much to ask for at the present time. While I have no reason or desire to pose as a "champion breaker," I am quite prepared, if "Xrayser II." or other chemists are interested, to take each section mentioned in my article, "receiving, stockkeeping," etc., and give simple facts and figures supporting the conclusions arrived at.

Yours faithfully,

Dover. W. H. Harris.

Sir,—I have read with much interest Mr. W. H. Harris's letter on timing dispensing, and noticed that he is "crossing swords" with Xrayser II." However, I for one fully agree with most of his statements, especially appreciating his remark that "good service should come before speed." Having had ample opportunity to observe the *modus operandi* of dispensers in leading pharmacies and drug-stores (City and provincial), I must say that there is no doubt whatever that there is room for considerable improvement on customary methods, which would certainly be beneficial to practitioners, their patients, and chemists in general. Unless the rate of profit on the dispensing of Insurance scripts is increased, it is obviously futile to expect better service, and the undissolved soluble salts in mixtures, soiled and leaky corks, unrinsed "repeat" containers, with their "coats-of-mail" of overlapped labels bearing badly written directions, will continue in evidence in the majority of pharmacies. In the days before the National Insurance Acts, prescriptions prepared even in village establishments received the utmost attention, all recognising as their motto *Salus populi suprema lex*, and it should be remembered that many of the present-day panel patients appreciated this fact and willingly paid the charges demanded, and complaints were rare indeed. Small wonder is it they now frequently find fault with their medicines, and do not hesitate to ventilate their grievances to their medical attendants and to the Insurance Committees. Many chemists insist on the modern idea of "while-you-wait" dispensing, and, if the dispenser is working single-handed and obliged to attend to the sales counter as well, how could he possibly turn out his scripts in anything approaching good pharmaceutical style? I well know that many proprietors ridicule Mr. Harris's estimate of the time required for accurate and complete work at the dispensing bench, so I trust the more conscientious pharmacists will not let the opportunity pass of making known their views on an undertaking so vital to the health of the nation as the dispensing of medical and surgical prescriptions.—Yours truly,

Liverpool. H. Corbett Meyrick (L.P.S.I., etc.).

The Cost of Chemists' Labour.

Sir,—My friend Jay Mack is extremely wrong if he suggests that the percentage of labour to a chemist is 5¾ per cent. We know that in the big stores it is 3 to 8, while the chemist's figure is probably 16 per cent. It is extremely important for the purpose of the Profiteering Act and otherwise that we should ascertain the average cost of labour to pharmacists. Recently a chemists' assistants' organiser made a demand for certain wages for his union, and when we demonstrated that it meant 18 per cent. of the turnover he was amazed. Let us try to hammer out the fair average figure, and for this purpose we must eliminate the work of the employer or class him as a manager with an appropriate salary.

Yours,

Pharmacien. (10/3.)

Sir,—I quite expected certain men would become envious of my 5 per cent., but they need not worry, they will never do it, simply because: (1) They cannot organise as I can; (2) they are not prepared to live for business as I do; nor (3) can they teach a staff. The little note printed by the *C. & D.* was "very vague," as a Channel Island chemist says to me in a letter, simply because it was only a portion of a reply to the Editor on a point, the balance of which appeared in "Miscellaneous Inquiries." One man's wage bill rose to 15 per cent. of his returns, and the Editor and I exchanged views on the subject—that is the explanation of the vagueness. However, let us examine "Xrayser II.'s" idea of the 2,000*l.* business employing a qualified man—presumably in addition to the qualified owner. I say it cannot be done at a profit to the owner, or even at the same wage as he would have to pay his qualified man. A 2,000*l.* business is a very small one to-day—only comparable to 1,000*l.* a year in 1914. Gross profit will depend upon the class of business. The "Statist" gives the gross profit of big London stores as 25 per cent.; Boots, Ltd., is said to get 27 per cent. And the income-tax accepts my yearly accounts at 33⅓ per cent. Forty per cent. can only be made if you have plenty of penny trade carefully done, or a big lot of profitable prescribing, or a very mixed trade with drysaltery and wines in a good position. It cannot be done without organisation like mine; the loss on packing dry drugs alone may run to 50*l.* a year through overweight. I have seen eight quarter-pound packets of cream of tartar tested and found to weigh 2¼ lb. on the scale, a clear loss of 2 oz. in each pound. You can estimate the loss on a year's packing of various drugs, weighing perhaps 5 tons, as 50*l.* easily. But as no argument will ever convince the old-style chemist that the half-dozen special bottles of "dope" which he prescribes daily and gets 200 per cent. for will not counterbalance losses like the above, I will take 37½ per cent. as the gross profit; on a 2,000*l.* turnover this would be 750*l.* for the year. Deduct your year's expenses of working the business and see where you are:

	£	
Rent	70	
Rates, taxes, light	50	
Petty cash, labels, stationery, corks, twine, boxes, wrapping-papers	40	
Advertisements	20	
Licences, telephone, insurances, small repairs	25	
Bank commission, bad debts, breakage	15	
		220
Qualified man	220	
Porter and boy	80	
Gross profit locked up in stock through rises of prices and new lines	100	
Cash at bank	20	
Owner's wages	110	
		530
		£750

If he pays himself more than he is actually making, then he merely throws up a debt on his stock, and he becomes from necessity a slow payer. And that is exactly the case with War Loan interest and wages in Great Britain to-day. The wages now being paid in every industry are not being really earned by the workers, so that the difference has to be made up by loans, and any chemist who thinks he is able to pay qualified labour on 2,000*l.* yearly turnover probably owns the property and fails to charge the 70*l.* rent, and also has an extra 200*l.* a year coming in from invested money, just as we have to have taxes and loans to pay the trade-union wages. Do you get me? If you do not, then buy a business and try it yourself, as Sir Eric Geddes said to the trade unions. Going back over the points of my expense account for the 2,000*l.* business, I have been locking up 200*l.* a year in stock and C.L. stock mixtures and Insurance dispensing generally in my own business every year for the war period, and I stand to lose 1,000*l.* on a sudden slump in prices, and the qualified assistant has no such risk of loss. No business owner can ever take out all the gross profit in ready cash at the year's end unless he deals in perishable goods which he clears right out weekly. Qualified men, porters, and boys are all getting more money than I have allowed, therefore I have proved that (as the Sheffield chemist said) no man can run a 2,000*l.* business to-day with qualified labour and leave for himself more than a junior's wage of 50*s.* a week. Qualified men are needed in big businesses, but not even the drug companies attempt to keep two such men in small businesses. During five years of the war period the usual exodus from the trade into other trades has been stopped, although a big number of men have left the trade for the medical. Now a five-years' collection has come back from the war, and there cannot be high-wage jobs for everyone right away. The drug companies will absorb a lot, the co-operatives have 7,000 patent-medicine licences, and perhaps only 200 dispensing departments, but they are opening such departments fast, and they will absorb more qualified men. There are plenty of businesses for sale, but plenty of evidence that men want Civil Service hours and no responsibility. There are scores of fine openings if they will take them, and if they are the right sort the capital will be found by the sellers in many cases. Woman labour I will tell you about another week. It is not cheap, but it is preferable to that of some of the men.

Yours faithfully,

Jay Mack. (9/3.)

A Warning.

Sir,—Mr. L. B. Thornton, chemist, Stockwell, S.W., informs us that in December last someone called upon him purporting to be a traveller from Liebig's Standard Wine Co., and sold him a dozen Beef and Malt Wine for 2*l.* 9*s.*, less 5 per cent. discount. The first bottle sold was quickly returned as being quite undrinkable and evil-smelling. Although the stock has been kept since in a cool cellar, Mr. Thornton finds it is fermented and unsaleable. On the invoice left with Mr. Thornton, Liebig's Standard Wine Co. are said to be specialists in medicated wines, and their address is given as "London and Manchester. Depôt: Finchley Road, London, N.W." A letter sent to Finchley Road has been returned through the Dead Letter Office, and one of our correspondents, who has an old-established business in Finchley Road, informs us that he knows of no such firm there. We have compared the label on Mr. Thornton's stock with a genuine label received from the Liebig Standard Wine Co., 7 Blackfriars Street, Salford, Manchester, and we find there is a marked difference. The Manchester firm inform us that they know nothing of the "Finchley Road" people. I should be obliged if any of your readers who have had similar experiences could give us the correct address of the firm referred to, and also the name of the traveller in question. The receipt which he gave to Mr. Thornton, like another similar receipt given in Stockwell, is signed "Liebigs Wine Co., H. C." The goods supplied to the other buyer are equally unsatisfactory.

Yours faithfully,

For The Chemists' Defence Association, Ltd.,
London, E.C. W. Johnston, Secretary.

[This is probably the case concerning which warnings appeared in the *C. & D.*, 1919, pp. 288 and 422.—Ed.]

The After-hours Fee.

Sir,—I have read in your journal that a firm of chemists charged a fee (for service) of 3*d.*, I presume after the closing hour, and this practice being brought before the Profiteering Committee, they ordered the 3*d.* to be refunded, and a prosecution to follow. All the houses here signed an agreement on December 1, 1919, to close their respective places of business at 7 p.m. (9.30 p.m. on Saturday), also to charge a fee (for service) of 6*d.* after the closing hour, 7 p.m., and after 9 p.m. a fee of 1*s.* It is interesting to note that since this agreement was entered into, calls averaging about thirty or forty per week have been reduced to an average of four or five per week, and some nights none at all. This proves that the public can transact their business during

the business hours, or put up with their ailment until the following morning. I do not know if it is legal to charge a fee for service after the closing hour, but have been advised that it is, and the adoption of the system here has been a great boon, and would be in all places if faithfully carried out, as it is with us. The public have been too well catered for, and now, when we have to pay overtime to our assistants (which is quite the right thing to do), the case is altered. I should mention that I answer no calls after I retire for the night unless a fee of 2s. is paid. William Hanna.

Bangor, co. Down.

Hss. for Eight Ounces.

Sir,—It may interest "Xrayser II." to know that for a period of about ten years prior to 1910 I regularly dispensed prescriptions of a country doctor of the old school in the neighbourhood of Bristol, in which he frequently wrote "ad Hss.," and by it always meant "ad ℥viij." Yours truly,

Peterborough. M. P. Walker.

Legal Queries.

Femina (176/45).—It is only in the case of limited companies that it is necessary to register the superintendent's name with the Pharmaceutical Society. In the case of a business carried on by a chemist's executors, the certificate of qualification of the chemist in charge must be displayed.

Manganese (202/72) has at times prepared a medicated wine out of a private recipe for a few customers, treating it as a prescription. As they have always been very satisfied with it, he thinks of giving the formula to a friend (not a chemist), recently demobilised, to provide an opening for him, the intention being that the friend should manufacture the preparation on a large scale and sell it with the proper medicine-stamp to pharmaceutical chemists only. Before starting, "Manganese" has advised his friend to see the local Customs and Excise official, and the official's opinion appears to be that a person may either make one of the B.P. medicated wines, in which case no licence would be required, or otherwise a wine "off" licence would be necessary; further, that if a person manufactures a B.P. wine he must be a pharmaceutical chemist. The possibility of making a wine sufficiently medicated not to be a beverage did not appeal to the official. "Manganese" contended that if the wine was sufficiently medicated it could be made and sold as a medicine by a pharmaceutical chemist. He asks if it would be sufficient for him to supervise the manufacture, and would it do if the preparation contained 1 grain of cinchonine sulphate per fluid oz., or must it be quinine? The wine to be used is Marsala or Xeres. [We know of no regulation restricting to pharmaceutical chemists the manufacture of B.P. medicated wines which are entirely made from *foreign* wine. What the local official probably had in mind was the sale without licence by duly qualified chemists and druggists of medicated preparations, to which the Revenue authorities offer no objection. Such articles must be made according to the B.P. formulas, contain at the time of sale the prescribed proportions of the medicating ingredients, and be labelled so as to show by the dosage that the preparation is intended to be used as a medicine and is not to be consumed as a beverage. If these conditions are not fulfilled the sale would be a sale of wine without licence. "Manganese's" friend could therefore make, but he could not lawfully sell it without licence. Acting as supervisor, as suggested, could not legalise the sale of the preparation when made. In the case of quinine wine, medication with one grain of cinchonine sulphate per fluid ounce would not be sufficient unless each fluid ounce so made contained the equivalent of one grain of quinine hydrochloride.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

T. P. (38/15).—Soda-water.—The solution for aërating consists of a solution of sodium bicarbonate, 10 grains to the pint. In practice the quantity of soda-salt for a large quantity of water is dissolved in a small proportion of the water, and this is added to the bulk, which is allowed to stand for twelve hours in order that it may clear.

A. D. (156/20).—Sanatogen.—The methods for the manufacture of sanatogen given in the expired patent specification (1541 of 1898) are as follows:

(1) The albuminoid (such as albuminates, milk-casein, or vegetable-casein) is mixed with water containing alcohol, or with other indifferent liquids, and the quantity of sodium glycerophosphate necessary for making it soluble is added by degrees while the mixture is stirred. The whole is then gently heated and the water removed advantageously by washing with strong alcohol, after which the product is dried to eliminate the alcohol.

(2) The albuminoid may be used in the form of its alkali compound, in which case free glycerophosphoric acid may be employed: thus the alkali compound of casein, containing 80 grams of caustic soda in 4.3 kilos., is suspended in alcohol and a concentrated aqueous solution of 172 grams of free glycerophosphoric acid (calculated as being of 100 per cent. strength) is stirred into the mixture, which is then warmed and filtered, the product being finally washed, pressed, and dried.

Five per cent. of glycerophosphate is the usual quantity in the commercial products.

A. A. (155/55).—(1) White Zapote is a Mexican tree of the order *Rutaceæ*, credited with narcotic properties. The fluid extract is given in doses of one to two teaspoonfuls. (2) Ceresin is the name given to refined ozokerite, which is a natural bituminous product occurring in many parts of the globe in the neighbourhood of petroleum springs. The melting-point is between 61° and 78° C., and the specific gravity varies from 0.918 to 0.922. (3) The United States Dispensatory is obtainable in this country from J. B. Lippincott Co., at 50s.

J. M. T. (27/25).—The London Insurance Pharmacopœia is obtainable from the London Insurance Committee, Insurance Street, Clerkenwell, London, W.C. 1.

Hall (166/58).—Filtration of Castor Oil on a large scale is effected by means of a filter-press. On a small scale cotton-wool or flannel is employed, with or without the addition of fuller's earth. It is, however, a slow process, but is accelerated by warming the oil.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," March 15, 1870

Ether as an Intoxicant.

A paper by Mr. H. Napier Draper, F.C.S., dealing with this subject concludes:

I am indisposed at present to make any generalisations, but even at this early stage of the inquiry it is impossible not to be struck with its forcible illustration of the fact that if men are deprived, or deprive themselves, of any one form of nervous stimulant, they will sooner or later replace it by another. And, in the words of Liebig, I would ask those who may be hastily disposed to look upon this practice of ether drinking as utterly vicious and harmful, first to inquire "whether it depend upon sensual and sinful inclinations merely, that every people of the globe has appropriated some such means of acting on the nervous life; from the shores of the Pacific, where the Indian retires from life for days, in order to enjoy the bliss of intoxication with coca; to the Arctic regions, where Kamtschatdales and Koriakes prepare an intoxicating beverage from a poisonous mushroom."

THERE IS NO BETTER

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Bichromate of Potash	Chromate of Soda (59/60%) (Ground)	Bichromate of Ammonia
67/68 %	Bichromate of Soda (67/68%) (Crystal. Powder. Cake)	78/79 %
(Crystal Ground).	Bichromate of Soda (74/75%) (Anhydrous. Granular)	(Crystal Granular).

SULPHATE OF AMMONIA 25½% (Anhydrous—Neutral)

MOND GAS TAR (Dehydrated)

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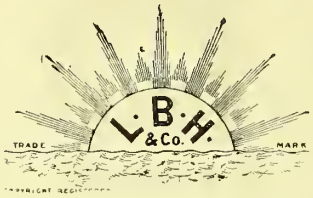

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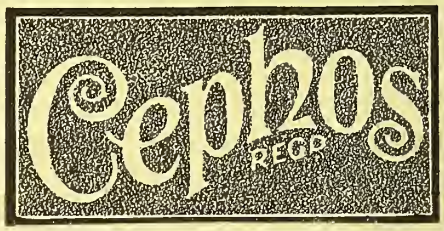

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INDIA (SUB-AGENTS): G. ATHERTON & CO., 8 Clive Street, Calcutta.
Stocked by all Wholesalers. *Now being largely advertised.*

SAPONINE

(SOLUBLE)
Special Terms to Wholesalers and Large Consumers.
MANUFACTURED BY
C. W. FIELD, LTD.,
Cambrian Mills - - Liverpool.

SHOWCARDS, POSTERS, TICKETS, etc.

You can be sure of getting:
DISTINCTION
STYLE
ORIGINALITY
FROM
F. MERTEN
THE EXPERT

GIVE a trial—YOU will come again.
112 WARHAM RD., HARRINGAY, LONDON, N.4

Kay's Compound Essence of Linseed,
"LINSEED COMPOUND"
(Regd. Trade Mark).
For COUGHS and COLDS.
On the P.A.T.A. List.

"KAY'S TIC PILLS."
"MOUNTAIN FLAX PILLS"
Linum Catharticum (Regd. Trade Mark).

"COAGULINE" & "TENASITINE" CEMENTS.

"ORBITE"
Banding Material for Fruit Trees.

BIRDLIMES, RATLIMES, and FLYGUMS.

Sole Makers :—
KAY BROTHERS LTD.,
STOCKPORT.

Minimum Retail Price—FACE VALUE.

W. T. Owbridge, Ltd., The Laboratory, Hull.

AK. CO.

DOES A GOOD LINE NEED ADVERTISING?

FLU-MAL

Messrs. Flu-Mal Ltd. believe it to be an essential factor in the promotion of sales. However good an article may be, the public need telling about it. Messrs. Flu-Mal have already spent many thousands in advertising to the general public, and you have doubtless already been repeatedly asked for "FLU-MAL."

A further large advertising scheme is now being issued. ARE YOU PREPARED with Stocks of "FLU-MAL"?

Their preparation is a preventive of Influenza, Malaria and kindred complaints, and the public are being told repeatedly of the best method of combating influenza.

There is an excellent profit in selling "FLU-MAL," apart from which you can be certain that you are handing your customers a preparation which is a real preventive and certain cure for Influenza, heavy colds, malaria and kindred diseases.

"FLU-MAL" IS A PROVED REMEDY, AND HUNDREDS OF TESTIMONIALS HAVE BEEN RECEIVED.

"FLU-MAL" is obtainable from your usual Wholesaler or direct from the Laboratories.

Retail Prices, 1/3 and 2/6, Extra Large sized Bottle, 4/6.

Write for particulars to—

FLU-MAL LTD., 44 Tachbrook Street, London, S.W.1.
Telephone: VICTORIA 7473.

Mr Shopkeeper—you can take more money over your Counter

MORE and more smokers are cutting down their expenditure on smokes. There is Profit, however, in making a Virtue of Necessity by selling WRIGLEY'S 3 Chewing Gums.

You have only to show the neat, sealed, air-tight packets of WRIGLEY'S Gums to sell a surprising number the very first day you have them on view and sale. See, too, how the sales will go on increasing.

Keep your sales up with Wrigley's

Retail 3d. per packet.

WRITE TO-DAY for Striking Show-cards and other Sales Aids, Trade Terms, etc.

Day after day striking advertisements of WRIGLEY'S 3 Chewing Gums appear in the Press, creating a demand you can supply to your sales and profit advantage; and the customers who buy WRIGLEY'S once from you will do so regularly thereafter, thus helping you to take more and more money over your counter.

Don't be the *last* to introduce WRIGLEY'S to your customers. Others are alive to the growing demand for WRIGLEY'S 3 sales-making Chewing Gums.

WRIGLEY'S 3

Can be obtained from all Druggists' Sundriesmen, or from
WRIGLEY'S, LTD., 235 Westminster Bridge Road, London, S.E.1.

INFLUENZA

AGAIN!

Are YOU PREPARED?

Supplied with FREE VAPORISER in each carton.

Last year, during the Influenza epidemic we were inundated with orders, with the result that deliveries were delayed, orders amounting to hundreds of pounds were lost; thousands of people had serious illnesses which could have been averted. Do not let that happen this year.

BE PREPARED

FUMO-TARACINE is recommended by THE MEDICAL PROFESSION as a

Preventive and Cure for Influenza

and all complaints of the throat and lungs.

2 oz. 1/4½; 4 oz. 2/3; 16 oz. 6/3

(COMPLETE WITH VAPORISER.)

FUMO-TARACINE

Obtainable from all Wholesalers, or direct from

Registered Trade Mark.

The COAL BY-PRODUCTS COMPANY

Proprietors. PRESTON, HULL & CO., LTD., Registered Offices, 112 HIGH HOLBORN, W.C. 1

HEALO SKIN OINTMENT.

TRADE MARK REGD.

P.A.T.A.

CARRIAGE PAID BONUS ORDER.

	Costs	Sells for
6 doz. 1/3 @ 11/6	£3 9 0	£4 10 0
Less Window Show Allowance	0 5 0	
	£3 4 0	
BONUS—1 doz. Free...		0 15 0
		£5 5 0

Sells for ...	£5 5 0
Costs... ...	3 4 0
Profit	£2 1 0

= 64%

ATTRACTIVE SHOWCASES, WINDOW BILLS, CARDS and FREE SAMPLES.

MAURICE SMITH & CO., LTD.
Manufacturing Chemists, Kidderminster.

Never be without

ZI-ZI OINTMENT

On the P.A.T.A.

The genuine remedy for
ECZEMA, CUTS, BRUISES, SORES, BURNS, PILES, PIMPLES, BAD LEGS, SORES on HEAD, CHAPPED HANDS and ALL SKIN TROUBLES.

Liberal Terms to the Trade.

Apply to your Wholesaler or to

The "ZI-ZI" CO., Newmarket.

Advertising matter free on request.

THE CONQUEROR OF PAIN!

JABEZ WOLFFE'S

Channel Embrocation

The finest preparation for Rheumatism, Sciatica, Neuritis, Muscular Stiffness, Sprains, Cramp Stings and Bites.

Should be stocked by every Chemist.

Prices: **1/3, 3/-, 5/-** per bottle.

Trade terms: 25% & carriage paid on orders of £3 & upwards.

The Laboratory, 12 Hampton St., BRIGHTON - SUSSEX - ENGLAND

Agents required for certain areas.

Telephone: 787 TRAFFORD PARK. Telegrams: "STEVENUT MANCHESTER."

CONTRACTORS TO H.M. GOVERNMENT.

G. STEVEN & CO.

(G. STEVEN, Ph.C., M.P.S., PROPRIETOR)

Wholesale Chemists & Drug Grinders,

CORNBROOK STREET & CHORLTON ROAD,
MANCHESTER.

Manufacturers of all Pharmaceutical Products.

SYRUPS. We specialise in all classes of Medicinal Syrups. Our Syrup Ferri Phosph. Co., Syrup Hypo. Co., &c., are unrivalled for brilliancy, taste and keeping properties.

Prompt delivery, packed or in bulk.

TABLETS. We are in a position to supply large quantities of medicinal tablets, packed or in bulk.

"NIOBE." "Niobe" Specialities are now in great demand. All products are guaranteed and profitable to handle. **No. 118 Eau de Cologne** is unique and requires no advertisement.

Samples and Prices on Application.

Genuine Russian **LIQUID PARAFFIN**
All gravities, correct viscosities

"Jasmine Brand" **ADEPS LANÆ** Superfine Anhydr. and Hydrous
Lanoline

"Jasmine Brand" **PETROLEUM JELLIES**
White and Yellow

"Jasmine Brand" **WHITE OILS** Chem. Pure, Water-white, Tasteless, Odourless
FOR MANUFACTURING PURPOSES

B.P. 1914
Finest Qualities
Competitive Prices

ALSO TRANSFORMER & INSULATING OILS.

The PURE RUSSIAN LIQUID PARAFFIN CO., Ltd.
3 St. Helen's Place, LONDON, E.C.3.

Actual Refiners and Manufacturers at their Works near London.

RUBY YELLOW GREEN

BRILLIANTINE OILS

Any Quantity—from Stock.
Wholesale Only.

WM. BORTHWICK
1 and 2 Staniforth Place, HULL.
Telephone—Hull Central 4054Y (Trunk only).

OLIVE OIL GENUINE
and
OLIVE OIL SOAP

LEON FRENKEL,
10 LIME STREET,
LONDON, E.C. 3

All Petroleum Products

TECHNICAL AND MEDICINAL WHITE OILS

PETROLEUM JELLIES, WHITE, YELLOW, DARK

PARAFFIN WAXES

NEUTRAL OILS, DEBLOOMED AND UNDEBLOOMED

PALE & RED LUBRICATING OILS

CYLINDER OILS, STEAM REFINED, FILTERED

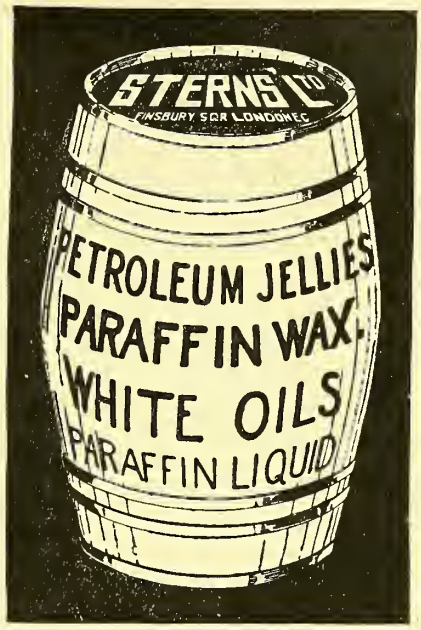
WHOLESALE ONLY

W. J. SMITH

Sole European Representative

The JAMES B. BERRY'S SONS CO. Inc.

110 CANNON STREET, LONDON, E.C.4



STERNS LIMITED

A.D.5., Royal London House, Finsbury Sq., E.C. 2.

Telephone: 3797 London Wall. (Four Lines.)

Telegrams: "Centumvir, Phone, London." (Two Words only,)

Langley-Smith & Co.

Castor Oils, *Medicinal, Lubricating.*

Colza Oils, *Best Pure, Prepared.*

Linseed Oils,

Best Raw, Double Boiled, Refined.

BEST PURE COLZA OIL

Turpentines,

Best Pure Spirits.

Substitutes,

Best Grades.

Samples and Prices on Application.

14-20 St. Mary Axe London, E.C. 3

Telegrams—"Tallowdom London." Tel. No.—Avenue 5320.

Francis F. Fox & Co. : Bristol

OILS
METHYLATED SPIRIT
CHEMICALS
DRYSALTERY

PRICES ON APPLICATION

TELEGRAMS—
"FOX BRISTOL."

TELEPHONE—
19 BRISTOL.

We offer

WAXES

PETRO. JELLY

LIQUID PARAFFIN B.P.

WHITE OILS

Send us your inquiries.

J. J. FRANSES & SONS,
LIMITED,
80a Southwark St., LONDON, S.E. 1.

PAINTING MATERIALS

Rayolene Black Japan

The ideal preparation for Cycles, Gas Stoves, Fire Ranges, Mail Carts, etc. etc. Guaranteed free from methylated spirits, and the same high-class quality as supplied to coach and carriage painters.

In Tins to retail at **10½d.**, **1/8** and **3/-**

Rayolene Oil Varnish Stains

Far superior to the old quick-drying spirit varnishes and much easier to apply. Made in Oak, Walnut, Mahogany and Ebony.

In Tins, to retail at **10½d.**, **1/8** and **3/-**

SPECIAL OFFER. One box containing an assortment of above, your selection, sent carriage paid, for 54/- net; 3 boxes less 5% discount; one box contains 8 doz. 10½d. size, or four dozen 10½d., and two doz. 1/8 size.

Rayolene Home Dyes

THE HOUSEHOLD FAVOURITE. For Wool, Silk, Cotton, or mixed goods.

To retail at **4d.** and **6d.** per packet.

Write for complete Price List of Paints, Varnishes, etc.

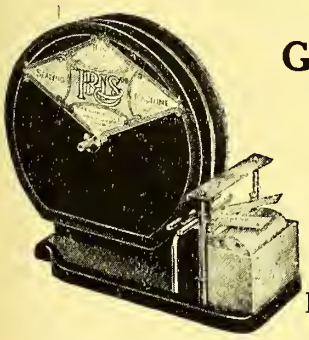
TEXALO MANUFACTURING CO.
Paint and Varnish Manufacturers,
SOUTH SHORE, BLACKPOOL, LANCS

WE SOLICIT YOUR ENQUIRIES FOR:—

OLIVE OILS, finest cream edible B.P.
SALAD OILS
PETROLEUM JELLY, B.P., White and Yellow
TURPENTINE, American Spirits and Substitutes
CASTOR OILS, all grades
COLZA OIL, finest and burning qualities
ROSIN, all grades
LINSEED OILS, Raw and Boiled
MINERAL OILS, Bloomless "Lux" Brands
WHITE OILS, Slab and Commercial
LUBRICATING OILS of all descriptions

JAMES ARNOTT & SONS, Ltd., Newcastle-on-Tyne and Cardiff.
Registered Offices: 47 PILGRIM STREET, NEWCASTLE-ON-TYNE.

THE
"IRIS" SEALING MACHINE
FOR
GUMMED TAPE



STRONG
SIMPLE
EFFECTIVE

If you are not already using our GUMMED TAPE for your parcels and packets, it is worth your while to send for samples and prices.

R. A. STEPHENSON, LTD.
130 Queen Victoria Street,
LONDON, E.C.4.

Telephone: City 2577.
Telegrams: "Econorast, Cent, London."

White & Half White Oils

WHITE PETROLEUM JELLIES
WHITE REFINED
PARAFFIN WAXES

HILTON, RIDER & Co. Ltd.
Manufacturers, Importers, Exporters
Tel No Hop 837 " 2829 *Gt. Suffolk House.*
T.A.: "Oilbird Sedist, London" *Southwark, London, S.E.1*

TRADE MARK.

ESTABLISHED 1785.

R. J. F. & B.'s world renowned Dairy Preparations are used and recommended at the PRINCIPAL DAIRY INSTITUTES and command by far the largest sale in Great Britain.

R. J. FULLWOOD & BLAND'S

ANNATTO

RENNET

"Oleo" and "Sunbeam" Butter Colouring. Rennet Powder, Essence of Rennet, Junket Tablets.

.....

RENNET WORKS, ELLESMERE, SALOP.

Offices:

31, 33 and 35 Bevenden Street, Hoxton, LONDON, N.

P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

March 13, 1920.

The following revised prices are now in force:

Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
Kerfoot, T., & Co.'s Preps.:		doz.
10½d. Dr. Beresford's Liver Salt ...	10½d.	7/6
2/6 Zone Salt	2/6	21/-
9d. **Maddocks'** Old English Lavender Sachets (Magnum)	9d.	6/-

1920 YEAR BOOK.

We regret that there has been longer delay than usual in the publication of the Year Book, which has been caused through our printers being unable to get delivery of paper, although promised to them some months ago. We are now assured that the printing of the issue will commence during the next few days, and that copies will be dispatched to the Trade as fast as they can be turned out by the binders.

LIQ. SANTAL FLAV. c. BUCHU et CUBEBA

(Hewlett's)

Packed for dispensing only, in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

The Practitioner.

VIROPHOS

TRADE MARK

Of proved utility in Nervous Diseases, and a powerful Restorative for the Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—*The Lancet.*

Wholesale Prices.

No. 1.	1½ oz. Tin ...	9/-	per doz.
" 2.	3¼ " " ...	14/6	"
" 3.	6½ " " ...	24/-	"
" 4.	12 " " ...	42/-	"

MIST. PEPSINÆ CO. c. BISMUTHO

(Hewlett's)

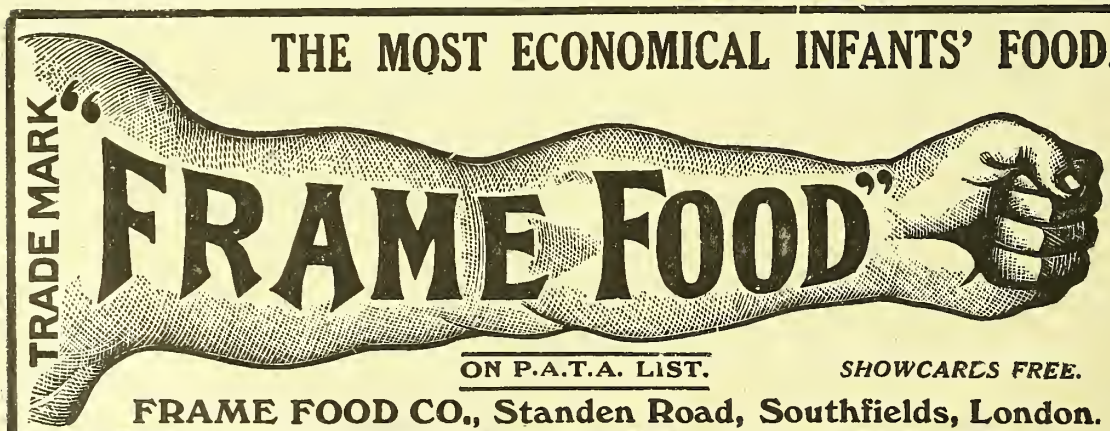
Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

British Medical Journal.

Introduced and Prepared only by C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35-42 Charlotte St., London, E.C. 2.

THE MOST ECONOMICAL INFANTS' FOOD.



ON P.A.T.A. LIST. SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.

VITMAR

THE NEW FOOD FOR GROWING CHILDREN

is now in great demand

Chemists can obtain it from their Wholesalers

RETAIL PRICE		WHOLESALE PRICE
2/3 per jar	... ...	21/7 per doz.
4/3 „ „	... ...	40/9 „ „
8/- „ „	... ...	76/10 „ „

MANUFACTURED BY

CALLARD & CO.

CALLARD, STEWART & WATT, LIMITED,

Food Specialists,

74 REGENT STREET, LONDON, W. 1.

CURACEA LIQUID NERVE TONIC

P.A.T.A. REGD. Phone: New Cross 981.

£2 10 0 BONUS ORDER.

	Costs	Selling Price
1½ doz. 1/3 @ 11/-...	£0 16 6	£1 2 6
1 doz. 2/9 @ 24/-...	1 4 0	1 13 0
¼ doz. 5/- @ 45/-...	0 11 3	0 15 0
	£2 11 9	£3 10 6
2½% extra discount C.W.O.	0 1 3	Bonus (½ doz. 1/3 size) 0 7 6
	£2 10 6	£3 18 0
		Cost 2 10 6
		Profit £1 7 6

PROFIT 56%

All orders carriage paid. Attractive Showcards and Counter Wrapping Bills free on request. Special prices for Ireland.

CURACEA CO., ELM GROVE, LONDON, S.E. 15.

Vinum Xericum

BUTTS. 108 galls. HOGSHEADS. 54 galls. QR. CASKS. 27 galls.

STRENGTH 17°

James V. Oldham

19 St. Dunstan's Hill, London, E.C. 3.

Telephone; Avenue 3013.

John E. Raworth & Moss

Chartered Patent Agents.

The Old Mansion House, 73 Cheapside, E.C.2. AND *Queen Anne's Chambers, Westminster, S.W.1.*

ALL CHEMISTS SHOULD STOCK ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 Years' Reputation.
"Abdine" is the most popular Health Drink, superior to all Mineral Waters. Sold in Packets, 1½d. each; Boxes of 13 packets, 1/6
Wholesale Prices on application. Sample Box 1/6.

D. M'CLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale on

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.3.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co., Ld.

The Largest Makers in the United Kingdom.

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St, Liverpool.

Advertised all over the Country.

Chemists have only to let the public see that they hold a stock of Osmos in order to attract customers. Osmos is on the P.A.T.A at 2/6 per bottle and yields a good profit to the retailer.

Osmos The Great British Aperient Water

Note these easy terms:

SIX bottles of Osmos sent carriage paid to any Chemist in Great Britain and Ireland on receipt of P.O. or remittance for 13/-. Case returnable and when received carriage paid the charge 2/- will be credited in full, or it may be retained and we will credit accounts with half the cost thereof, viz. 1/-.

Osmos, Crown Wharf, Hayes, Middlesex.

THE CHEMIST'S POSITION TO-DAY

WHILE a Scientist, the Chemist must also be a Business Man. A sufficient admixture of the commercial instinct in a Chemist is good for his business. For, being in a business, that business should "pay" the Chemist — his scientific knowledge and the business service he renders to his customers merit a margin of profit more than that which the milkman, the baker and the grocer have a right to expect for their less scientific services.

THE SANAGEN CO. recognise this Professional-plus-Commercial need. That is why there is 50% profit on

GOLD MEDAL AT INTERNATIONAL MEDICAL CONGRESS, LONDON.

Sanagen

NERVE FOOD. Trade Mark Regd.

obtainable by a 33⅓% Trade Discount from the following

SIZES and RETAIL PRICES.

4-oz. **3/-**	8-oz. **5/-**	16-oz. **9/6**

SANAGEN COMPANY, LTD.

SHEEPCOTE LANE, BATTERSEA, LONDON, S.W. 11.

TELEPHONE: LATCHMERE 4363.

MALT & COD LIVER OIL

Prepared only from the finest East-Coast Barley, Combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lbs. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 gross and upwards.

TELEPHONES: Nitshill—Pollokshaws 14 London—Avenue 5661 (3 lines).

PERRY & HOPE, Ltd.

TELEGRAMS: "Perryope, Nitshill." "Perryope, Ltd. London."

NITSHILL, near GLASGOW.

London Office: 1 LEADENHALL STREET, E.C.3.

CREAM of TARTAR
CREAM POWDER
BARIUM CHLORIDE
COD LIVER OIL

FROM STOCK.

K. MALMBERG,

110 Cannon Street, LONDON, E.C. 4.

AND AT NEW YORK

Telegraphic Address: "Obtempero, Cannon, London."

Telephone No.: City 6321.

Extract of Malt
and
Cod Liver Oil

IN BULK, JARS OR TINS.

Prices on application.

THE

BRITISH DIAMALT CO.

BISHOP'S STORTFORD.

Proprietors { H. A. & D. D. TAYLOR
H. D. & C. T. TAYLOR

GELATINES

FINE LEAF GELATINE
PURE CALF

"ALBION" BRAND

(In 1 lb. Packets.
112 × 1 lb. Packets to Case.)

MADE IN ENGLAND.

FINE CRYSTAL GELATINES.
PURE SKIN GELATINES.
POWDERED GELATINES.

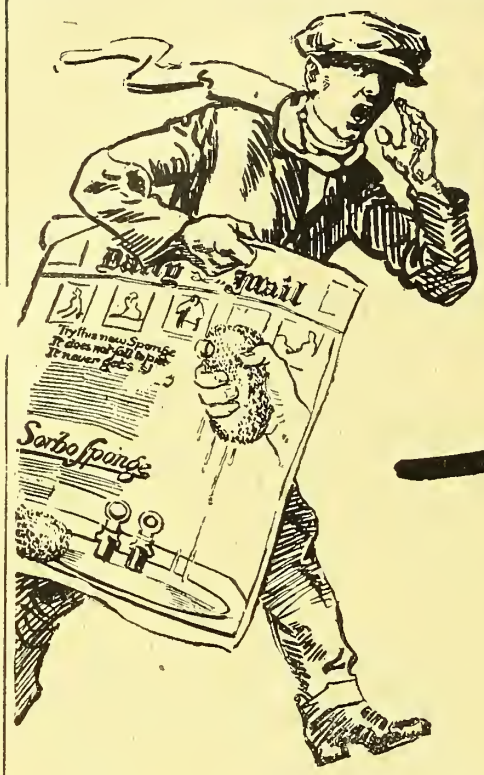
Samples on application from

OURY, MILLAR & CO.,

Telegrams:
"OLMENTH,
LONDON."

9 Mincing Lane,
LONDON, E.C.

Telephone:
4978 AVENUE.



Watch the papers!

Share in the Coming Boom in Sorbo Sponges

THE moment Sorbo Sponges were offered to the public they achieved a great success.

Next Week a colossal advertising campaign will be in full swing in the daily Press. The demand for Sorbo Sponges will be phenomenal. Share in the coming boom in Sorbo Sponges.

We expect such a rush of buying that we may ourselves find difficulty in coping with the enormous demand. Be ready to supply your customers when they ask to see the Sorbo Sponges, advertised everywhere. ORDER NOW!

A trial parcel of three dozen assorted Sponges will show you a clear profit of 33⅓%

YOUR WHOLESALER CAN SUPPLY.

Make a special note to see the Sorbo Exhibit at LONDON FAIR AND MARKET, Stand No. 262 Gallery, Royal Agricultural Hall, March 16 to 26.

Sorbo Sponge

THE MOST ABSORBENT RUBBER SPONGE

Protected Retail Prices.

No. 1, 1/3; No. 2, 2/-; No. 3, 3/-; No. 4, 5/-; No. 4R, 7/6; No. 5, 10/6.

SORBO RUBBER-SPONGE PRODUCTS, LIMITED,

Telephone: CITY 9372. 24, Walbrook, London, E.C.4. Telegrams: Osorbeau, London.

HIGH - CLASS

SURGICAL DRESSINGS.

LOOK HERE!!!

Extract from *Manchester Guardian*, January 27, 1920.

> The Ministry of Health have, however, kept under close observation the records of epidemic sickness at home and abroad, and in view of the almost simultaneous increase of influenza in great American cities, in Europe (Poland), and also in the Far East (Japan), the Ministry consider that there is considerable probability of another wave of influenza developing in this country at an early date.
>
> This may be due to direct introduction by infected persons arriving from abroad, or to the independent development of the epidemic from the influenza usually present.

YOU WILL DO YOURSELF NO END OF GOOD IF YOU ARE READY FOR THE EMERGENCY.

"ZORBO" REG. PNEUMONIA JACKETS

ARE THE RIGHT THING.

No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
9/6	12/0	16/6	20/6	25/0	30/0

Per Dozen.

ROBERT BAILEY & SON, Ltd.,
SURGICAL DRESSING MANUFACTURERS,
MARRIOTT STREET MILLS, STOCKPORT.
CABLES UNDISPUTED, STOCKPORT. CODE A.B.C 5TH EDITION.

"NORVIC" CRÊPE BANDAGE (Regd)

SUPERIOR ENGLISH MANUFACTURE. FAST WOVEN EDGES

Extremely Elastic, but contains no Rubber.

Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norwich Crepe Bandages, containing wool, will provide warmth, and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency entirely restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Commended by the medical and nursing professions. Send for prices and samples to the sole manufacturers—

Comfortable for the day.

The NORWICH CRAPE CO. (1856) Ltd. (ST. AUGUSTINE'S SILK MILLS), Norwich, Eng.

Provincial Selling Agents, Freese & Moon, Ltd., 59 Bermondsey Street, London, S.E. 1.
London Buyers can obtain samples & prices from Mr. T. Eastaway, London Representative, 7 Wool Exchange, E.C.2

Belladonna Plasters. Breast Plasters.

Attractively wrapped, best quality, readily saleable.
Breast Plasters are shaped and have small unperforated margin.
ZOPLA (Zinc Oxide Plaster) in small attractive tins in three colours.
Also on spools and in rolls. *The most popular Strapping.*

Strengthening, Corn and Bunion, Mustard, Rubber Adhesive, Holland Strapping, Plumbi Base, and all other Plasters.

HELVIA CRÊPE BANDAGES.

Write for complete List. WHOLESALE ONLY.

LESLIES, LTD., 62 London Wall, London, E.C. 2.

Mustard?

—Yes! RIGOLLOT'S Mustard Leaves

for Plasters.
The original and only genuine.

Of all Chemists and Stores in

7d. & 1/- packets & 1/7 tins.

67 Southwark Bridge, LONDON, S.E.

KUTSEAL THE HEALER

THE LIQUID COURT PLASTER
ALL- BRITISH.

Minimum Retail Price 1/3 Wholesale Price 11/6 PER DOZ.

CARRIAGE PAID ON ORDERS OF 30/- UPWARDS.
2½% DISCOUNT FOR CASH IN 7 DAYS.

SOLE MAKERS: THE KUTSEAL CO., BLACKPOOL.
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GOOD SELLING LINES, GOOD PROFITS, AND ABSOLUTE SAFETY IN STOCKING
"HOBSON'S CHOICE"
FEET PLAISTERS AND POWDERS
STOCK IS RETURNABLE AT ANY TIME, FOR ANY REASON, AND FULL PRICE REPAID.
For Prices and Samples apply to
HOBSON, TRIMBLE & CO., LTD.
Union St., and Market, LEEDS,
or your own WHOLESALE HOUSE.

TURKEY SPONGES

(Very scarce).
4/6 6/6 9/- doz.

BABY'S CHECK BIBS

(Clearing Line).
4/- doz.

SMALL TOOTH COMBS

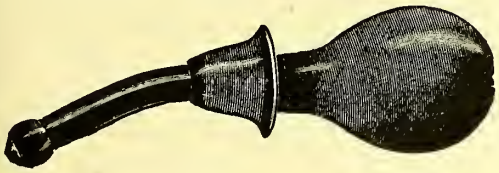
3" long.
Black or White.
No. 2003
Very fine Teeth 9/- doz.

THOS. SWALES

Druggists' Sundriesman,
24 BUTTS COURT, &
89 ALBION ST., LEEDS

WE OFFER FROM STOCK

WHIRLING SPRAYS



Finest stout Rubber Ball and Vulcanite Mount. In Red Velvet and Red Enamel finish. Each in box.

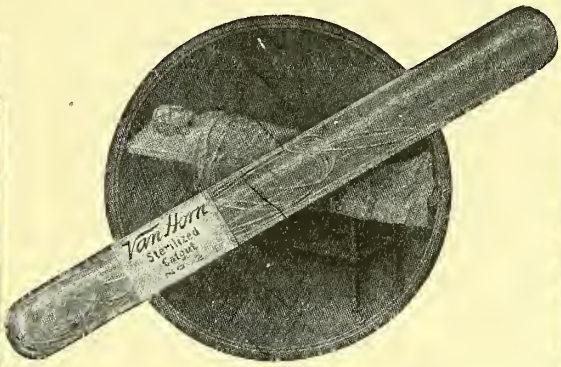
54/- per dozen.
3-dozen lots and upwards,
51/- per dozen.

ARTHUR BERTON, Ltd.

15/17 WORSHIP STREET, E.C. 2.
LONDON, MANCHESTER and GLASGOW.
Telegrams: "Abelim, Finsquare, London."
Phones: London Wall 507 ; City 998

The thought behind the tube—

"the patient on the table"



Not "good enough," but the best from every standpoint—alone assures that degree of "Catgut Safety" demanded when the patient on the table is "one of my own family."

Only on this peculiarly personal basis is

"VAN HORN" CATGUT

supplied to the Profession.

VAN HORN Obstetrical Suture
(Chromic Gut)

K-Y Lubricating Jelly
An Ideal Emollient.

K-Y Analgesic
The Greaseless Anodyne.

Johnson & Johnson,
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New Brunswick, N.J., U.S.A.

Agents:
JOHN TIMPSON & CO., LTD.
104 Golden Lane, London, E.C. 1.

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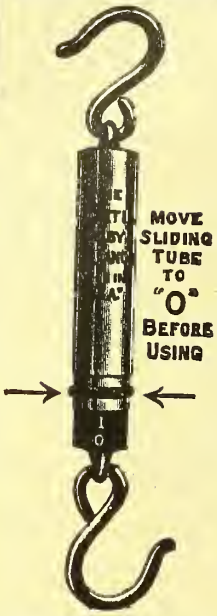


A Limited Consignment of

THE

"PORTIA"

(Regd.)

NET WEIGHT

Baby Balance

Weighs up to 15 lb.

Price	Retail
30/- dozen.	3/6 each.

Owing to restricted imports this line has been off the market for some time, and we think that many friends will be glad of the opportunity of renewing their stock.

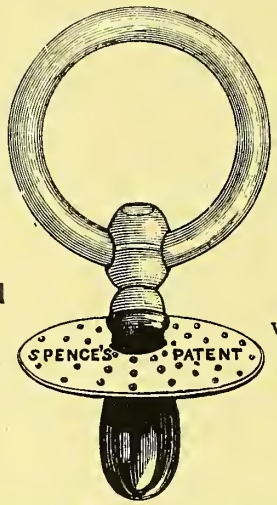
SOLPORT BROS., Ltd.

184 to 190 Goswell Rd., London, E.C.1.

Obtainable through all Wholesale Houses.

SPENCE'S SOOTHERS

This is a Speciality of ours—Best Quality Well-Fitted and Attractively Carded.



Stocked in 78 Varieties. All Good Selling Lines and well-known to the Public.

A complete set of Samples can be sent upon receipt of Postal Order value £1. 7s. 6d., OR a good selection for 10/6, carriage paid.
(Money returned in full if not satisfied.)

Representative can call in London and Suburbs with Samples, upon receipt of Post Card.

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Telephone: Brixton 1772.

Please note the following lines:

SEAMLESS ELASTIC STOCKINGS, 8/6 pair.
ELASTIC CORSETS, 10" 12" 14" & 16" long.
18/9 25/- 31/6 35/- pair.
ENEMAS, BLACK OR RED ENAMELLED. ALL BRITISH. 17/3 and 19/9 per doz.
5/- dozen extra if with vaginal pipe and shield.
SPONGE BAGS from 6/6 per dozen.
CHECK BATHING CAPS from 6/9 per dozen.
RUBBER BATHING CAPS from 12/- per dozen.

THE SURGICAL SUPPLY CO.,

4 PICCADILLY, MANCHESTER.

MANUFACTURER OF

ELASTIC GUM CATHETERS AND BOUGIES

WHOLESALE AND EXPORT.

Contractor to India Office, War Office, Admiralty, etc.

E. BRASSE, Culvert Works, Culvert Road, South Tottenham, N. 15

Telegrams: "ARTAPANUS LONDON." Telephone: TOTTENHAM 1627.

This Week's SPECIAL OFFER

BATHING CAPS

Order Early. Net prices
Check—Waterproof—Circular 7/6 doz.
Rubber Helmet Shape, lined bands—assorted art colours 23/- doz.
Full variety of patterns stocked

SPONGE BAGS

Waterproof.

Nos.	1	2	3	4	5	6
Check	4/6	6/6	8/-	9/-	12/-	14/-doz
Khaki Twill	5/3	6/6	8 -	10 -	12.6	15 - ,,
Super Best Check	7.6	9/-	11/-	13/-	16.6	19/- ,,
Double Proof (cream & chocolate)	10/3	12/-	14/6	17/6	2 /-	24/- ,,
Oiled Silks, Assorted Colours	7 6	9.-	10.6	12 6	16/-	18/- ,,

Believe us, these are worthy of your consideration — A Clear Definite Offer.

SURGICAL RUBBER GOODS of all kinds.

Wholesale Depot for "Sorbo" Rubber Sponges

JAMES TOMPKINS Ltd., *The Rubber House,*

386 CITY ROAD, LONDON, E.C.1. Phone: CITY 7640.
All British. Established 44 years.

The Brand "Ingram's London" is a Guarantee of Quality.

The India Rubber Hot Water Bottle with a reputation for Reliability, Perfect Construction, and Adaptability to all Conditions.

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"Eclipse" REGD

HOT WATER BOTTLE

Fitted with a *Washer* that cannot be lost, and made with a Neck that cannot *Leak*.

Obtainable through all Wholesale Houses.

SHOWCARDS FOR CHEMISTS.

A supply of neat Showcards for window or shelf display, $6\frac{3}{4}''$ by $5\frac{1}{2}''$, will be sent on application.

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BRITISH-MADE

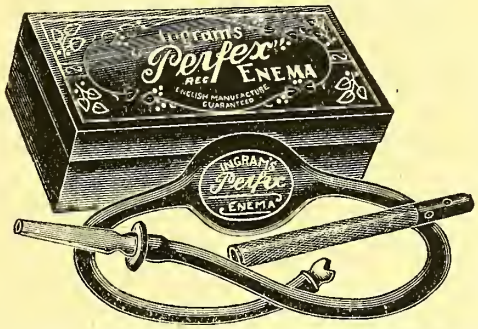
SEAMLESS ENEMAS

THE "ZEBINA" ENEMA (Regd.)

Guaranteed Not to Split (Ordinary Bulb).

Practical Workmanship. Perfect Construction. Fitted Complete with Bone Rectum and Gum Vagina Pipe and Leather Shield, and packed in an attractive Card Box.

THE "PERFEX" ENEMA (Regd).



A Reliable Quality Seamless Enema (Ordinary Bulb).

Perfectly Safe. Perfectly Hygienic. Fitted Complete with Bone Rectum and Vagina Pipe and Leather Shield, and packed in an attractive Card Box.

P.A.T.A. PRICES OF INGRAM'S REGISTERED ENEMAS.

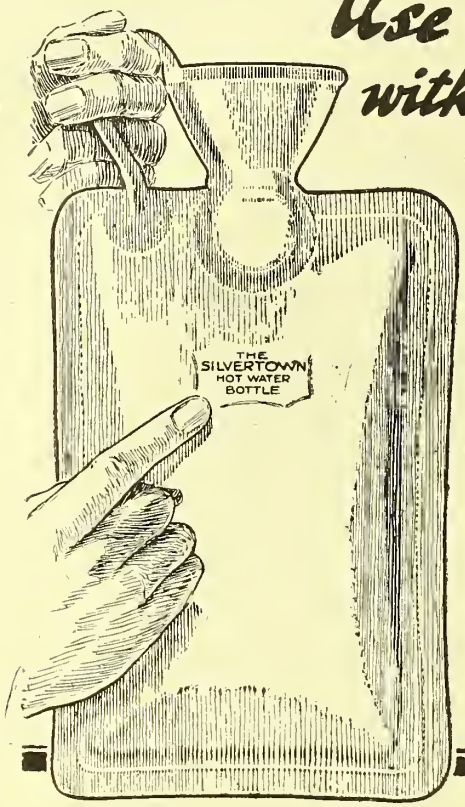
REGISTERED TRADE MARK	Wholesale Prices to Chemists	Minimum Retail Prices
	Per doz.	Each
ADAPTABLE ...	66/3	7/4
ECLIPSE ...	60/0	6/8
STERILENDUM	49/9	5/6
ZEBINA	47/9	5/3
ATALANTA ...	44/0	4/10
UTILEMA ...	40/6	4/6
ZENITH... ...	40/6	4/6
PERFEX ...	32/6	3/8

J. G. INGRAM & SON, LTD.

THE LONDON INDIA RUBBER WORKS,

Established 1847. Telephone 1406 East,

HACKNEY WICK, E. 9. LONDON, ENGLAND.



Use the Hot Water Bottle with the Silvertown Reputation

The name of "Silvertown" has acquired a reputation for sterling quality and reliable service.
If your customer wants a high-grade bottle, sell him a

Silvertown

Made in the usual standard sizes. Customer's name lettered free on all bottles when not less than three dozen assorted sizes are ordered at the same time.

The India Rubber, Gutta Percha & Telegraph Works Co.
(The Silvertown Company) Ltd.

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WORKS: Silvertown, London, E. 16.

BRANCHES:
HOME—Belfast, Birmingham, Bradford, Bristol, Cardiff, Dublin, Glasgow, Liverpool, London, Manchester, Newcastle-on-Tyne, Portsmouth, Sheffield.
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RUBBER CORKS

IMPORTANT

It is not generally known that Corks made of Rubber are to-day 25% cheaper, are more serviceable, reliable, and give greater sealing facilities than any other kind. We specialise for the requirements of the Chemical Trade, and manufacture all standard sizes.

	Drab Ammonia Proof.	Drab Acid Proof.	
Prices for 8-oz. Bottles ...	3/3	4/3	per gross
" 16-oz. " ...	4/9	5/9	"

Other sizes—Prices on Application.

SPECIAL PRICES FOR LARGE QUANTITIES.

We also manufacture BUNGS for ½-gall. and 1-gall. Jars.

RED & BLACK RUBBER CORKS of the Best Quality for Laboratory use.

Inquiries Solicited.

Garden City Rubber Company

Manufacturers of all Rubber Specialities for Medical, Chemical & Laboratory use,

Letchworth, Herts.

Telephone: Letchworth 54. Telegrams: "Rubber Letchworth."

For GUARANTEED

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THE DEVILBISS CO., LIMITED,
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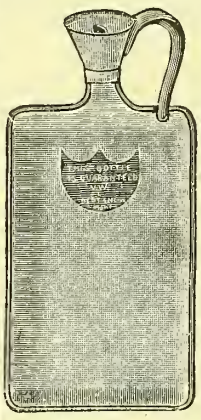


VINCENT WOOD'S

(GOLD MEDAL, GUARANTEED)

Hot Water Bottles

8/- lb. 12 × 8 weighs under 13 oz.

Covers for same, assorted sizes, 21/- doz.

BELTS TRUSSES SUSPENSORIES & Surgical Appliances
AT LOWEST CURRENT RATES

91 & 93 Newington Causeway, London, S.E. 1.

PIPES AND SMOKERS' REQUISITES.

Price Lists on Application.

HARWOOD BROTHERS,
BRIAR PIPE MANUFACTURERS,
8/20 Richmond Street, LIVERPOOL.

Every "Ronoleke" REGD. You Sell

makes a Customer for your other Lines

The fact that the "Ronoleke" Bottle CANNOT leak makes satisfied customers who will have confidence in coming to you for all their other needs. Make sure of your supply of "Ronoleke" Guaranteed Unleakable Hot Water Bottles by ordering through your Wholesale House right away NOW.

They will supply you also with attractive advertising material, and the "Ronoleke" itself will advertise you in every purchaser's home.

Revised Prices.

Protected on the P.A.T.A. List.

Size	Minimum Wholesale Prices to Retailers	Minimum Retail Prices to Public
6" × 8"	5/–	6/5
6" × 10"	5/6	7/1
7" × 10"	5/9	7/4
6" × 12"	5/10	7/6
7" × 11"	6/–	7/9
8" × 10"	6/3	8/–
7" × 12"	6/6	8/4
6" × 14"	6/6	8/4

Size	Minimum Wholesale Prices to Retailers	Minimum Retail Prices to Public
8" × 12"	7/1	9/2
9" × 12"	7/5	9/7
8" × 14"	7/8	9/11
10" × 12"	7/11	10/2
10" × 14"	8/11	11/5
10" × 16"	9/9	12/7
12" × 14"	9/11	12/8
12" × 16"	10/6	13/5

Your Wholesale House will supply you

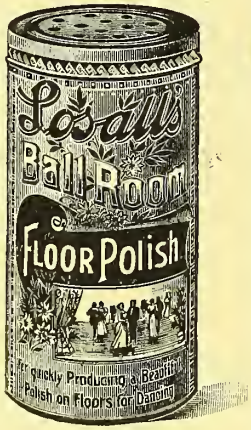
Effective, Showy, and Very Saleable

Losall's - - Ball-Room Floor Polish

For quickly producing a perfect Polish on Floors for Dancing.

Handsome three-coloured Enamelled Tin, Perforated Top.

P.A.T.A. **1/6** Per Dozen, **13/6**



LOFTHOUSE & SALTMER, Ltd.

Wholesale and Export Drug Merchants and Manufacturing Chemists,

HULL.

MEND-IT

SOLE AGENT

ARTHUR KITSON

Telegrams "Activity Leamington"

MANUFACTURER, IMPORTER & EXPORTER, LEAMINGTON-SPA, ENG.

Telephone No. 459 Leamington

Wholesale & Export Only

Retail Chemists having any difficulty in obtaining supplies of this popular everyday selling line should write to the Sole Agent who will pass any orders on to the Wholesale Houses holding stocks.

Insist on "MEND-IT"

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If you want the best Drug Labels ask your printer to use

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NON - CURLING PURE GUMMED PAPERS

We make a quality for every purpose.

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Packed to suit customers' requirements.

Special quotations for large quantities and contracts.

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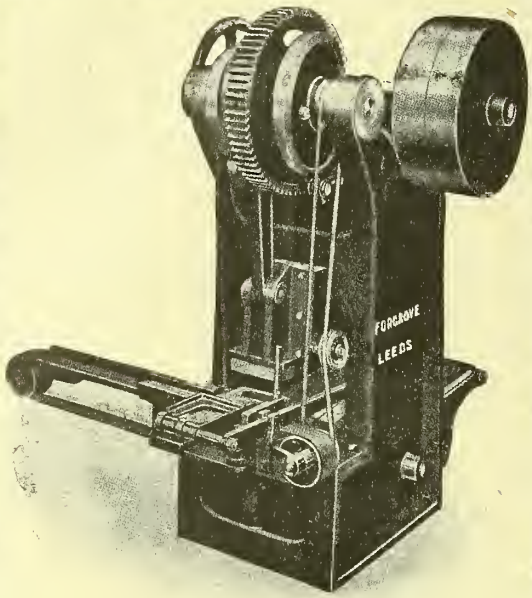

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Output, 50 pieces per minute.

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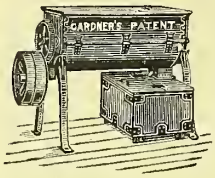
GARDNER'S PATENT
"RAPID" SIFTERS & MIXERS



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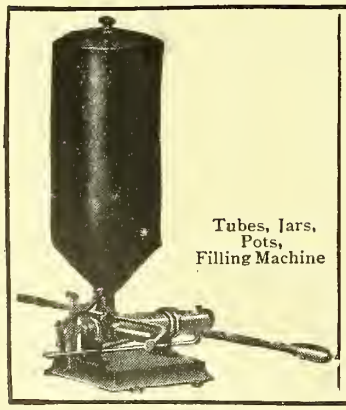

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THE "CENTRAC" MACHINES

for Filling Collapsible Tubes, Bottles, Pots, Jars, &c., and for Closing Collapsible Tubes.
Hand or Power driven.
Made in England.
Strong, Simple, Reliable. Easy to Work.
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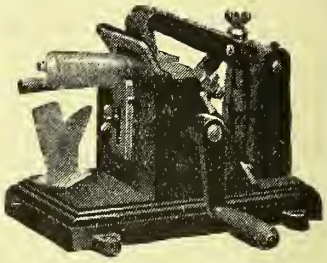

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ILLUSTRATION of a Combination Bottle Dryer specially designed for Manufacturing Chemists. Six to ten gross can be dried in the cupboard per hour, and at the same time large bottles can be dried on the tubes at the rate of two thousand a day of ten hours.

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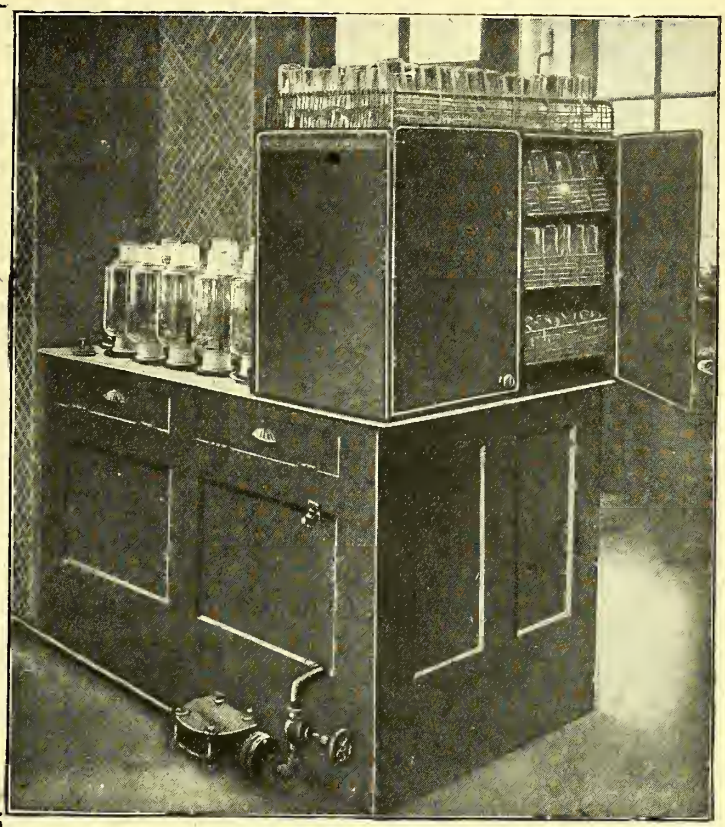

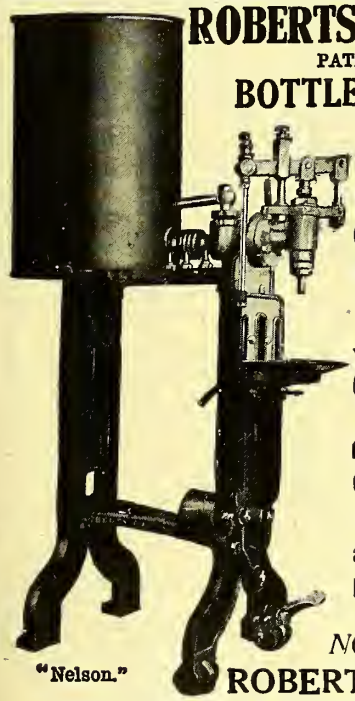

ROBERTS' ORIGINAL PATENT BOTTLE-FILLING MACHINES

Don't waste money on imitations, buy Roberts' Machines which actually **Created the Records** for **CLEANLINESS SIMPLICITY, and Rapidity in Bottle Filling.**

NOTE the address

"Nelson." **ROBERTS' PATENT FILLING MACHINE CO.,**
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OUR LATEST PATENT "ALPHA" PRICE £14, WILL FILL 10 GROSS BOTTLES PER HOUR.

Write for Particulars *All rights reserved.*

JACKSON'S "EXPRESS" BOTTLE FILLING MACHINE.

A NEW DESIGN on modern lines, of lightness and great strength, without clumsiness. Is quite fool-proof, all electric and other complications discarded. Extremely simple and adapted for girl labour. Dripless, owing to new rapid and perfect cut-off.

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Thos. Christy & Co.	Ucal, Cheltenham
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The Fastest, Cleanest and Simplest. Average Speed 1,000 bottles per hour.

Specially good for—Emulsions, Hair Oil, Hair Restorer, Dyes, Lacquers, Essences, Extracts, Castor Oil, Camphorated Oil, Glycerine, Toilet Preparations, Veterinary Medicines and Patent Medicines of all kinds. Used by many of the largest Wholesale Chemists & Druggists, who write: "There is no better filling machine," "An excellent machine," A great help—Average speed 1,000 bottles per hour."

PRICE ON APPLICATION.

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Engineers and Coppersmiths,
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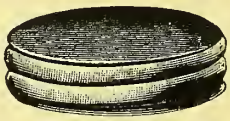
Yes, we are the ACTUAL Manufacturers of

SCREW CAPS



Aluminium,
Nickelled Zinc & Tin.

Sizes, Zero to No. 44.

DISINFECTANT MEASURES IN ALUMINIUM. TWO SIZES.

Wholesale trade only supplied.

A. S. CARTWRIGHT, Ltd.,

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GLASS TUBES, GLASS BOTTLES
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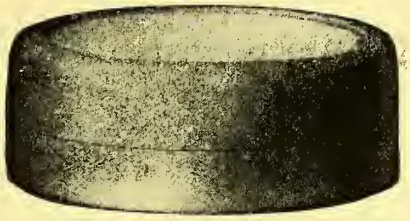
BOXES
SHAVING STICK
AND SIMILAR
TUBES



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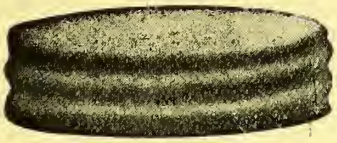

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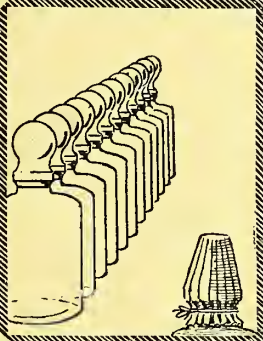

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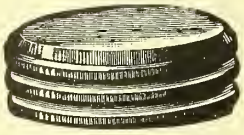

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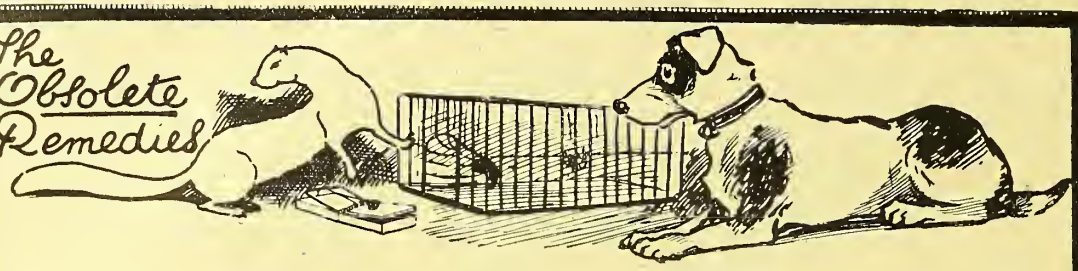

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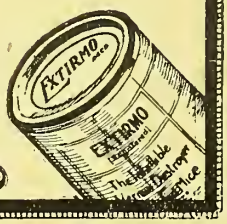

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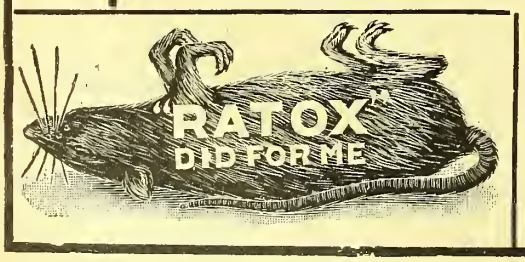

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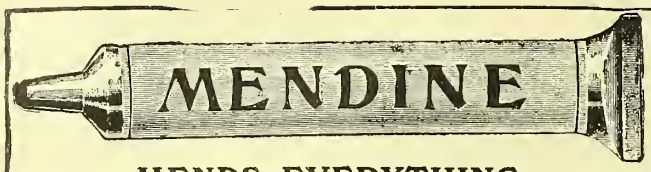

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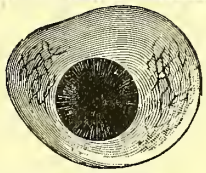

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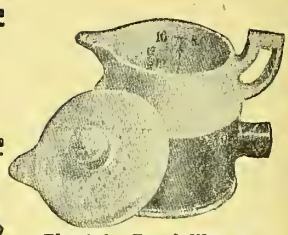

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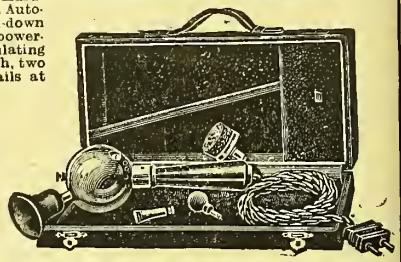

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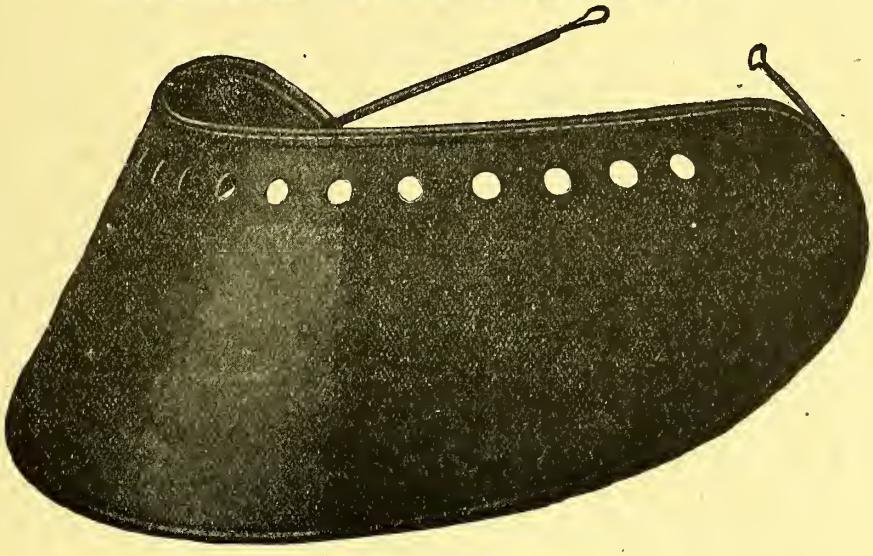

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9.—HAMPSHIRE.—Cash Retail Business; returns about £3,000 per annum, at good prices; large well-fitted shop, fully stocked; no near opposition; new lease will be granted at a rental of £90; price £1,800.

10.—NORTHANTS.—General Retail and Dispensing Business; returns, present rate exceed £3,000 per annum; *net profit* 25%; double-fronted shop; rent £80; held on lease; price £2,500.

11.—MIDLANDS.—General Retail Business; returns exceed £2,500 per annum; books open to investigation; double-fronted shop; low rent; new lease can be obtained; price about £1,500.

12.—SOUTH WALES.—Light Retail Business, chiefly cash; returns at the rate of £1,700 per annum, at full prices; double-fronted shop, small house; garden; held on lease; price £850.

13.—SUSSEX (Coast).—High-class Retail and Dispensing Business; returns £5,000 per annum; stock and fixtures estimated at £4,000; further details on application.

14.—HOME COUNTY.—Good-class Ready-money Business, situate in centre of marketing thoroughfare; returns £7,000, under management; scope for development; handsomely fitted shop, fully stocked; held on lease; price £5,000.

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. O. & Co., desire to emphasise the necessity of a periodical Statement of Account, by which means alone Profit, the of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

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LONDON, N.—Old-established Pharmacy, corner of busy thoroughfare, at present carried on by unqualified as Cash Drug Stores; rent on lease £60, and rates, etc., £21; portion sublet (leaving for living accommodation parlour, two front rooms, basement, kitchen, and servant's bedroom), £129; showing profit rent of £48 per annum; turnover £15 to £20 per week; energetic, qualified man with little capital could easily double; fixtures, fittings, and stock valued at about £350; price for cash £750. Apply P.C.B. 47/4, Office of this Paper.

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SMALL Toilet Manufacturing Business (Lancs) with registered trade-mark is offered cheap for quick sale; stock about £400; trade-mark and goodwill £100; open to investigation; can be worked from any district. Apply 60/34, Office of this Paper.

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A MANUFACTURERS' Agent, with experienced Travellers a connection in the North of England, desires additio Agency in Toilet Preparations (full range preferred), Specialities suitable for Grocery Stores (Wholesale and Reta Write 69/17, Office of this Paper.

CANADIAN AGENCIES.

MR. THOS. A. McGILLIVRAY, of McGillivray Bros., Toronto and Winnipeg, is at present in London on a business trip. He would be glad to get in touch with good-class British firms open to extend their connections in Canada. McGillivray Bros. cover the Dominion from coast to coast, their travellers calling periodically on all the principal houses connected with the Drug trade. All letters c/o P.C.B. 44/5, Office of this Paper.

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MR. WILLIAM SHADFORTH, Ph.C, Governing Director Shadforth Prescription Service, Ltd., will be glad to

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IRMINGHAM OR NEIGHBOURHOOD.—Cash Retail and Dispensing Business wanted; house not necessary; or suitable emises that can be converted; replies treated in strict confidence. Apply 65/24, Office of this Paper.

USINESS wanted (immediately) in South Wales, doing £1,000 or £2,000 per annum and capable of increase; must bear ict investigation; advertiser has ample capital; replies treated th absolute confidence. Address 69/39, Office of this Paper.

HARMACEUTICAL Chemist desires to purchase high-class Business with big turnover, or would consider Partnership. McNeal Tomlinson, 37 Cecil Street, Lytham.

WANTED, a good Dispensing and Light Retail Business; London suburb or good provincial town, taking from £40 £50 weekly; good house essential; cash available for a prompt ansfer. A. J. Hall, Middle Aston Grange, Steeple Aston, Oxon.

WHOLESALE and Retail Chemist's Business, situated in West of England, preferably Devonshire; one offering ample scope r progressive development; immediate possession; available cash. 2,000; applications from South of England welcomed; usual parulars in first letter; growing town or good market town desirle. J. A. Moorhouse, 274 Bradford Road North, Huddersfield.

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BLACKPOOL.—Shop, previously occupied by Chemists 10 years, situate 65 Warbreck Road, to be Let on lease. Dickinson, 9 Penywern Road, Earl's Court, London.

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BARGAINS (selling out).—1,800 Blue Cartons (large, 4 oz.) and Liners, £6 10*s*.; ¾-diam. Dble. Imp. Kraft Brown Paper, 0*s*.; 12 gross Shampoo Powders, £4 5*s*.; 5 gross Powder Books, 3 10*s*.; must be sold. E. C., 311 Hainault Road, Leytonstone.

CAMOMILE Plants, about 20,000, must clear; 100, 1*s*. 9*d*.; 500, 1*s*. 6*d*.; 1,000, 1*s*. 3*d*. per 100; carriage paid. Kerr, antown-on-Spey.

STUDIO Camera and Stand complete; 34 in. double extension, two slides, Lens Busch Portrait Aplinat F6, No. 3; 11 in. cus; silent shutter; 12 in. elevation; perfect; £27. Sigrist, anham, Bristol.

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ACTIVE Partnership or position required in Wholesale in Manchester or district; advertiser is qualified, age 32, married, nd has disposed of business owned by him for last ten years; illing to invest £1,000. Apply 66/39, Office of this Paper.

OPENING now offers in substantial Northern business (Retail and Wholesale) for young capable man, thoroughly familiar ith small packed goods and sundries, control of staff, and buying; oth indoor and outdoor work will be required. Kindly state ll particulars and what capital available to "Statim" (69/8), ffice of this Paper.

PHARMACEUTICAL CHEMIST, wide experience, desires Partnership or Assistantship, with view to succession, in good ental Practice; expert Operator, Gas and Local, Fillings, lays, etc.; must be in London district, preferably West. Apply 9/32, Office of this Paper.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

WE have received the following instructions from an advertiser in the last week's issue of this section of our Journal: With reference to the advertisement 36/3, c/o Office, Birmingham Branch, Manager.—We have had so many applications that it is impossible to reply individually, and wish to inform all the applicants that the position is filled.

BIRMINGHAM.—Unqualified Assistant Wanted for business situate in industrial district; give full particulars of experience and salary required. Apply "A." (25/1), Office of this Paper.

BLACKPOOL.—Manager of branch, qualified, about 30 years of age, single, having had similar post previously; give full particulars in first letter, salary required, when at liberty. Apply 65/35, Office of this Paper.

BRACKNELL, BERKS.—Wanted, an unqualified Assistant with good Dispensing experience for five or six months, beginning April 12th. Apply, giving particulars of age, experience, and salary required, T. G. Stewart, Chemist, Bracknell, Berks.

BURSLEM.—Assistant for Country Wholesale and Retail; N.H.I. Dispensing when at liberty; outdoors; single; short hours; several others kept; must be good Salesman. State age, height, and experience, with references and salary required, Thos. Leicester, Chemist, Burslem.

DONCASTER.—Required, almost immediately, in an old-established business, conducted on progressive lines, an Assistant (23-26). Apply, stating age, height, experience, and salary required, and enclose photo if possible; no reply will be entertained unless applicant's character will bear strictest investigation. M. H. Stiles & Son, Doncaster.

DOVER.—Wanted, Junior Assistant in good-class Dispensing business; must be competent Dispenser; reasonable hours and comfortable place. Please state age, height, and usual particulars, with salary required (outdoors), to Mr. Ewell, Alex. Booth & Co., Town Wall Street, Dover.

HALIFAX.—Unqualified Manager for Drug Store; must be used to busy Cash business; good Counterman and Window-dresser; knowledge of Photography; hours 8.30 to 7, Thursday 1 p.m., Friday and Saturday 8 p.m.; permanency; good prospects to the right man. State age, references, salary and commission required, Taylors (Northern), Ltd., 4 Crown Street, Halifax.

LONDON, City.—Unqualified Assistant required; must be good Counterman and Dispenser. Apply A/S (25/100), Office of this Paper.

LIVERPOOL.—Young lady as Junior or Improver. J. G. Wallbridge, F.S.M.C., 227 Kensington, Liverpool.

LONDON, E.—Qualified Manager required for Light Retail business, with Insurance Dispensing, in a good Suburban district; small house attached; interest in the profits to an energetic and persevering man. Apply Bark (25/101), Office of this Paper.

LONDON, N.—Wanted, a good unqualified Assistant, not over 35; used to quick trade and reliable; usual hours and alternate Sundays 6-8 p.m.; summer holidays; £3 10*s*. to £4, according to experience. Address Fredk. J. A. Hays, Chemist, 147 Fore Street, Edmonton, N. 18.

LONDON, S.E.—Junior required; willing to put up stock and make himself generally useful; working-class district; outdoors. Apply, stating salary required, age, etc., to 69/28, Office of this Paper.

LONDON, W.—Unqualified, competent Assistant for high-class business; easy hours; no Sunday duty; also temporary Assistant for Saturdays, 2 to 8 p.m. Apply, stating age, salary required, and experience, 68/25, Office of this Paper.

LONDON, W.—Qualified Manager wanted for end of March, to live over shop; must be up to date and possess good references. Apply, stating salary, etc., to H. A. Irwin, 2 Station Parade, Ealing Common, W. 5.

MANCHESTER.—Junior lady Assistant required with Dispensing experience and some Counter knowledge. State salary required and full particulars to 66/29, Office of this Paper.

MANCHESTER.—Wanted (at once), Junior Assistant. State when at liberty and usual particulars, with salary (outdoor), to Henry Fricker, 104 Claremont Road, Pendleton.

MANCHESTER.—Wanted, Junior Assistant for quick Cash trade and N.H.I. Dispensing; willing and obliging; send full particulars and salary required by first letter. Beal, 446/8, Rochdale Road.

MANCHESTER DISTRICT.—Junior Assistant; unqualified; having had some experience in N.H.I. Dispensing and Counter work; state when at liberty and full particulars. Apply 65/350, Office of this Paper.

NEAR LIVERPOOL.—Capable Assistant required, Junior preferred, accustomed to Dispensing and Photography; outdoors. Full particulars to F. J. Parker, Pharmacist, Huyton.

NOTTINGHAM.—Wanted, smart, active Assistant, unqualified, for Counter and Dispensing; outdoor; no Sunday duty. Apply, stating particulars of salary, experience, and references, to W. J. Clay, Chemist, 40 Carlton Street, Nottingham.

SOUTHPORT.—Smart Assistant (gentleman), with good Dispensing and Counter experience; knowledge of Photography an advantage; must have good appearance, and be accustomed to good-class business. Apply by letter only, stating salary required, to Harold Barton, 111 Lord Street, Southport.

STOKE-ON-TRENT.—Wanted, qualified Junior, outdoors, commence April; good-class Retail with N.H.I.; one hour duty alternate Sundays; state age, experience, and salary required. Apply 67/5, Office of this Paper.

THE GENERAL HOSPITAL, BIRMINGHAM.

THE Board invite applications from Pharmacists (men) for the post of Second Assistant. Hospital experience essential. Salary £200. Applications, together with testimonials, should be sent to the House Governor.

ASSISTANT, unqualified, under 35, for brisk cash, middle-class business with N.H.I. Dispensing; good Salesman, Window-dresser and Stockkeeper, Photography; send full particulars with salary required; not answered three days declined. Wood, Chemist, Oxford Road, Reading.

ASSISTANT wanted for good-class Dispensing business; qualified preferred. Apply, with full particulars as to age, height, experience, and salary required, to A. E. Coverdale, Pharmaceutical Chemist, Worcester.

ASSISTANT wanted; lady would suit, if experienced in N.H.I. Dispensing and with some knowledge of General Shop Routine; outdoors; please state age, salary, and usual particulars. F. G. Ling, Chemist, 281 Hackney Road, E. 2.

BRANCH Manager, accustomed to high-class Retail and Dispensing, with Photographics; South-East Coast; good Salesman; courteous and obliging; state age, height, salary required (residence attached), former experience, and when disengaged. "Storax," c/o Maw's, 11 Aldersgate Street, London.

DISPENSER, gentleman, fully qualified, required on 6th April for the Sheffield Royal Hospital; salary £250. Apply, stating age, previous experience, and enclosing copies of testimonials, to the Secretary.

ENERGETIC Assistant required in old-established Dispensing business in West End; view to partnership or eventual succession; quick Dispenser essential; with some capital preferred. Apply 67/37, Office of this Paper.

LADY Dispenser wanted by Doctor. Apply 144 Brecknock Road, N. 19.

LADY Assistant for Dispensing, and to assist at Counter if needed; no Sunday or half-holiday duties; reasonable hours; to live out; dinner and tea indoors if required. State salary, Wyatt, Broadway, Barnes, S.W.

MANAGER wanted for high-class Store business; South Coast; must be smart, energetic, and of good appearance and address; unqualified; knowledge of Surgical and Optical desirable, but not essential; good Salesman and Window-dresser. State age, height, experience, and salary required in first letter to 68/18, Office of this Paper.

PART-TIME male Assistant Dispenser wanted immediately for busy practice; vacancy suits Student with Dispensing experience desiring mornings free to attend college; must be trustworthy and gentlemanly. Call or write to A. Hughes, 20 Streatham Hill, S.W. 2.

QUALIFIED Assistant wanted for good-class Retail. Full p ticulars as to salary and reference to Michelson, Chemi 49 Fowler Street, South Shields.

QUALIFIED Assistant wanted. State age, height, referenc experience, salary required, etc., to Holman, Ham & C Ltd., Market Street, Exeter.

QUALIFIED Assistant wanted immediately to manage branc Light Retail and Dispensing; please give full particula references, and salary required (outdoors). Duck & S Chemists, Cardiff.

QUALIFIED Assistant required immediately for country bu ness; easy hours; comfortable situation. Apply, giving f particulars and salary required, to Gostling & Co., Diss, N folk.

SMART Junior required in good-class Retail and Dispens business; Window-dresser and knowledge of Photogra essential. Full particulars, with photo if convenient, to Edwa Pharmacist, 87 Pontcanna Street, Cardiff.

UNQUALIFIED Assistant required, age about 23, for N.H. Stock, and Counter. Applicants please state references, a height, and salary required, to Dawsons (Chemists), Ltd., 257 H Street, Ponders End, Middlesex.

WANTED, Junior Assistant, March 29th (about); g Counterman, Dispenser, and Window-dresser; no N.H Dispensing; state age, height, and salary required (outdoo H. Richards, Salisbury Street, Blandford.

WANTED (at once), a reliable Assistant for good-class coun business. Apply, with full particulars, to C. Wass, I beach, Lincs.

WANTED, Lady, principally for Bookkeeping and Clerical wo qualification unnecessary, but some knowledge of the busi desirable; short hours or part time. Apply personally or by let to "W. S. R.," 1 Southwick Street, Hyde Park, W. 2.

WANTED, qualified Lady Dispenser for Doctor, in Lewish district; every evening except Sundays, or some evenin hours 6-9 p.m.; state salary required. Apply 69/23, Office of Paper.

77/6.—ASSISTANT, unqualified, preferably single, and un 30, for good-class Retail, Dispensing, and Ph graphic business; must be experienced, quick, and accurate, possess undeniable references. Apply H. Hall, Pharmacist Optician, 31 The Broadway, Crouch End, London.

WHOLESALE.

A FIRM of Manufacturing Chemists, selling well-known P prietaries and Infants' Foods, are open to appoint Re sentatives on commission basis for Leicestershire, Derbyshire, N tinghamshire, South Wales, South, and South-East England; c men with sound connections among the trade and desirous additional side-lines need apply. 67/19, Office of this Paper.

ANALYTICAL Chemist (Junior) for works of Electrical Ma facturers in East London; used to analysis of lead, oxides, acids, ebonite, and other electrical materials; some kn ledge of Electrical Engineering and Accumulators an advanta salary £250 per annum. Write, stating age, experience, "A. C. C.," at Horncastle's, 60 Cheapside, E.C 2.

COUNTER Hand (Wet and Dry), age 21 to 24, wanted provincial Wholesale Drug House; state full particulars wages required. "C." (5/4), Office of this Paper.

EXPERIENCED man required, to take control of Wet and Stockroom; East End factory. Apply by letter, stating experience, and salary required, P.C.B. 47/21, Office of this Pa

EXPERIENCED man required for working Disintegrator Hursting Mill; factory in East London. Apply by let giving experience, age, and salary required, P.C.B. 47/210, Offic this Paper.

EXPORT.—Head Export Invoice Clerk required; Midlands; permanent position for capable man having held sim position with firm of Wholesale Druggists; must have sound kn ledge of the trade. State full particulars, in strict confidence B. (3/1), Office of this Paper.

MANUFACTURING Chemist requires Town Traveller for ex lent Side-line work, on commission basis; ample opportu to make an extra £5 weekly. 69/4, Office of this Paper.

HENRY HODDER & CO., Ltd., Bristol, have vacancy for qualified Assistant, with experience as Branch Manager. Apply Managing Director, Hodders, Ltd., 5 Nelson Street, Bristol.

LABORATORY Manager wanted by a firm of Wholesale Manufacturing Druggists in Northern Midlands. Give full particulars as to experience, age, salary, etc., to H. (14/2), Office of this Paper.

LIVE Traveller wanted, to carry side-lines of Manicure Sets, Scissors, Pocket Knives, Razors, cheap Jewellery, etc.; only those with connection need apply; prices lower than other competitors; liberal commission only. Apply, by letter in first instance, giving full particulars, A. V. Newmark & Co., Ltd., 111 Edgware Road, London, W.

MANUFACTURING Chemists require Representatives to call upon Chemists, etc., with Packed and Toilet Specialities; a live man, looking for a permanency, can (if he desires) acquire some shares in order to give him a personal interest. Usual particulars, 69/7, Office of this Paper.

MANAGER for business manufacturing Face Cream and Perfumery; must have a sound knowledge of these articles and able to control staff. Write full particulars of experience and salary required to "R. B. M.," c/o Street's, 30 Cornhill, E.C. 3.

QUALIFIED Branch Manager wanted by firm of Company Chemists in London, with London experience; commencing salary £6 per week and commission. Apply "Progress" (68/14), Office of this Paper.

REPRESENTATIVE required by Manufacturing Chemists for Lancashire district. Please state full particulars (in confidence) in first letter to Calvert, Elmsmere Road, Didsbury.

REPRESENTATIVE wanted by progressive firm, to carry high-class Toilet Goods and well-established Proprietaries; salary basis only; applicants must be able to show evidence of proved ability as Salesmen. Replies, giving full particulars as to salary, previous experience, etc., to R. (33/3), Office of this Paper.

TRAVELLER wanted to carry as side-line Toilet article; good demand amongst Chemists; good commission offered; must have connection and be able to influence good business. Apply P.C.B. 45/22, Office of this Paper.

WANTED, a thoroughly competent Assistant for the Chemical Counter; must have personal references. Apply by letter to "B. S. L.," Wright, Layman & Umney, Ltd., 46 Southwark Street, London, S.E. 1.

WANTED, by leading firm of Soapmakers, Chemists, Representatives to carry lines suitable for Pharmacy and Perfumery trade. Apply, stating age, experience, and territory covered, to 5/1C., Office of this Paper.

WANTED, a Porter, used to the Wholesale Drug trade. Apply Hodgkinson, Prestons & King, 262 Bishopsgate, E.C.

WANTED (at once) by large Wholesale Drug House in the North of England, an Assistant Analyst for Alkaloidal work; Major or Minor qualification. Apply "Alkaloids" (9/1), Office of this Paper.

WANTED, Working Manager for Wholesale Chemist, used to the Manufacture of Galenicals, etc. State age, experience, and salary expected, 69/21, Office of this Paper.

WELL-KNOWN Proprietary Remedy firm in London requires a first-class Salesman to call on and sell goods in large quantities to Chemists in London; also one for the North of England; this is no so-called "snip," calling as it does for steady, hard work and sterling salesmanship; liberal remuneration is paid to men of enthusiasm, energy, and foresight, able to prove their worth; prospects thereafter are distinctly good, but unless you are a sales-compelling Salesman please do not waste your time or ours by writing. Write fully, in strict confidence, with following particulars: Age, married or single, permanent residence, previous experience—both peace time and war time, remuneration expected to commence, and other information considered essential. Address in first instance, Salesman, Box 132, Ashby Service Agency, Ltd., 44 Rathbone Place, London, W. 1.

WET COUNTER.—Burgoyne, Burbidges & Co., Ltd., require experienced man at once. Apply High Street South, East Ham.

YOUNG Chemist (preferably with Major qualification), competent to undertake analytical work and assist in the manufacture of Galenicals under the supervision of Laboratory Manager. Apply, stating experience and salary required, to 62/30, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

FAR EAST.—A qualified Assistant, not over 30 years of age; must have had experience in first-class Retail and Dispensing business; good salary for the right man; passage paid out and home, on a four years' agreement. Address 68/37, Office of this Paper.

JAPAN.—Qualified Assistant required for important European Pharmacy in Kobe; four years' agreement; second-class passage paid out and home. Particulars of salary upon application to M.H. Export Department, S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C.

PARIS.—Qualified Assistant; knowledge of French and Continental experience; outdoors; short hours; no Sunday or night duty; state age, experience, references, and salary required in first letter; permanency, with good prospects, for suitable man; send photograph, which will be returned. Roberts & Co., 5 Rue de la Paix, Paris.

PARIS.—Experienced Dispenser; must have good knowledge of French and be accustomed to first-class business. Detailed particulars and photo to Pharmacie Anglaise, 62 Avenue des Champs Elysées, Paris.

STRAITS SETTLEMENTS.—Young Assistant, unmarried, with Chemist's qualification, a good knowledge of Optics desirable; four years' agreement; passage paid out and home; salary first year £490, second and third years £525, fourth year £560. Apply 140/34, Office of this Paper.

FOR AUSTRALIA.

REQUIRED, temperate man, under 40, with a practical experience of the manufacture of pure Fruit and Synthetic Essences, Essential Oils, Synthetic Floral Ottos, etc. He must be intimately acquainted with the manufacture and uses of Aromatic Synthetic Chemicals, more particularly the higher Aldehydes and Alcohols, and their application to modern flavourings and perfumery. A comfortable position is offered with a progressive firm, and there is every opportunity for advancement. Salary to commence £350 per annum. Ideal climate and living cheaper than in England. All particulars to 198/64, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

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ASSISTANT (lady) desires post with Chemist; experienced. Apply "M.," 333 Brixton Road, S.W. 9.

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ANAGER; qualified; single; disengaged; temporary or per- manent; good experience Counter, Dispensing, Photography; t time *pro. tem.* "Beta," 9 Grantbridge Street, Islington, 1.

ANAGER; qualified; disengaged; married; Locum or per- manency; long experience; town or country. D. O. C., 26 Hill, S.E. 19.

ANAGER or Assistant; 35; married; disengaged; abstainer; good experience; qualified; reliable; permanency. "Spes," Greyhound Lane, Streatham, S.W. 16.

ANAGER; qualified; 26; single; excellent Dispensing, Coun- ter, Photo, and Optical experience; accustomed to quick e and progressive methods; salary £6. Marshall, Beckenham, brooke, Monkseaton, Northumberland.

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